

*To:* Mark Austin - USEPA  
Rob Alvey - USEPA  
Craig Wallace - NJDEP  
Nanci Higginbotham - USACE  
Amy Darpinian - USACE  
Chris Kennedy - USACE  
Greg Hattan - USACE  
Phil Rosewicz - USACE

*cc:* Norma Eichlin - OBG  
Brad Williams - HDR  
Todd Wilson - HDR

*From:* Lisa Tilton - O'Brien & Gere

*Re:* Chemical Insecticide Corporation - OU4 (Groundwater)  
Monitoring and Remediation Optimization System (MAROS)  
Revised Data Analysis

*File:* 13003/39260 #2

*Date:* April 8, 2009

## 1. Introduction & Purpose

Under Contract No. W912DQ-06-D-0010 with the U.S. Army Corps of Engineers (USACE), Kansas City District, HDR and O'Brien & Gere are providing long-term monitoring (LTM) and assessment services as part of the remedial design of Operable Unit 4 – Groundwater (OU4) at the Chemical Insecticide Corporation Superfund Site (CIC). Currently, the LTM well network consists of 25 monitoring wells in the CIC Study Area. These wells are listed in Table 1.

In an effort to assist USACE and the U.S. Environmental Protection Agency (USEPA) with groundwater trend analyses since the OU2 remedy (soil excavation) was completed in March 2005, HDR and O'Brien & Gere have performed a long-term monitoring optimization data analysis utilizing the Monitoring and Remediation Optimization System (MAROS) program. MAROS was developed by the Air Force Center for Environmental Excellence (ACFEE). Its methodology provides optimal monitoring network solutions by applying statistical techniques to existing historical and current site analytical data, as well as considering hydrogeological factors and plume stability. The program suggests an optimal plan along with the analysis of individual monitoring wells for the current monitoring system. Ultimately, this then provides a basis for the project team to make more cost effective, scientifically based future long-term monitoring decisions.

## 2. MAROS Input and Output Results

### 2.1. Site Specific MAROS Data Requirements

To effectively achieve results with MAROS, it is recommended to have a minimum of 5 to 8 rounds of analytical data, as indicated by the recommendations of the MAROS (Version 2) User manual. In addition, data for at least 4 wells should include 4 measured concentrations over 6 sampling events for the time period used. The data is required to be incorporated into one spreadsheet using a strict format of rows and columns, and formatted to fit the entry requirements in MAROS. To date, 5 quarterly monitoring events have been conducted using the established LTM well network at the CIC Study Area (see Table 1). In addition to the LTM events, representative data for *most* of the LTM wells (since 2003) consist of the following:



## MAROS Data Analysis

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- 2003 USEPA Monitoring Event – June/July 2003;
- 2005 USEPA Monitoring Event – October 2005;
- Baseline Monitoring Event (BME) – December 2006;
- Additional Groundwater Investigation (AGI)/1<sup>st</sup> Quarter LTM Event – July/August 2007;
- 2<sup>nd</sup> Quarter LTM Event – December 2007;
- 3<sup>rd</sup> Quarter LTM Event – March 2008;
- 4<sup>th</sup> Quarter LTM Event – June 2008; and
- 5<sup>th</sup> Quarter LTM Event – September 2008.

\*Note – MW-5BR, MW-6BR, MW-7BR, and MW\_8BR were installed in 2007.

Table 1 lists the total number of sampling events for each well. The CIC Site satisfies the requirement for 5 to 8 monitoring rounds in all but one case – well OU. Due to a low yield volume, this well could not be sampled during two events. Therefore, this well is not included in the analysis, as data may not be reliable. The import data spreadsheet for the key indicator parameters for this project (alpha-BHC, arsenic, dinoseb, and trichloroethene [TCE]) is provided as Table 2, by well.

Another input requirement for MAROS is hydrogeological data – specifically seepage velocity (calculated using the values of hydraulic conductivity, surface porosity and hydraulic gradient), plume extents (width and length), downgradient receptors, and the number of source and tail wells. Source wells include those wells containing non-aqueous phase liquid (NAPL), contaminated vadose zone soils, and areas where aqueous-phase releases have been introduced to groundwater – generally, wells in the area of contamination. Tail wells are those located downgradient of the source areas. Table 2 provides the hydrogeological data and assumptions used for the CIC Site. Where appropriate references for the information gathered is indicated. A Site Map is included as Figure 1.

### 2.2. MAROS Output Reports

- MAROS Site Results, COC Assessment, Plume Analysis Summary, Mann-Kendall Statistics Summary Linear Regression Statistics Summary, and Spatial Moment Analysis Summary Reports are presented as Attachment A.

The MAROS site results and COC assessment indicate the user defined site and data assumptions, data periods, compounds of concern (COC) used in the modeling program, and overall summary of sampling duration and frequency. In addition, the spatial moment analysis results, confidence of trends, and coefficient of variation are included. Noted within the statistical summary pages is the percent confidence in the trends and coefficient of variations. Results show percentages are low, accompanying a high coefficient of variation. Ideally, the lower the coefficient in variation the higher the confidence of the trends and accurate trend analysis.

The plume analysis summary and other statistical summaries indicate the results of the various types of statistical models used within this program, average and median concentrations, standard deviations, coefficients of variations, and confidence in trends. Results on these pages indicate trends in the plume for each of the indicator parameters and wells. In many cases, trends are noted as stable “S”, no trend “NT”, decreasing “D”, probably decreasing “PD”, and a few listed as increasing “I”, or probably increasing “PI”. Furthermore, results show percentages are low, accompanying a high coefficient of variation.

*Analysis:* Due to the limit number of data sets and the small variations of those data sets, generally the overall plume trends for the indicator parameters for each well is no trend, stable, or a few wells noted as

decreasing or increasing. The MAROS program was developed for sites with large well networks (i.e., large number of data points/data sets). While the CIC data meets the minimum requirements to upload and run the MAROS program, the statistical modeling results are affected by the lack of detections. In many cases where there are no detections for a given parameter in a well, the trend is noted as stable. The program uses half the detection limit as the concentration in cases where there is no detection. Therefore, if a given well has never seen any detections for a certain parameter, the concentration has remained generally the same and the MAROS program sees this trend as neither decreasing nor increasing (it is stable).

In other instances, there is only one or two detections in a given well, which is not enough data for the statistical models this program utilizes. Or, where small fluctuations of detections exist within the 5 to 8 rounds of data, the modeling program will not see the trend as an overall decrease, unless there is a larger set of data to obscure these minor excursions. Included in Attachment A are examples of these graphical representations for a given parameter in a given well. Examples are shown for Mann-Kendall and the Linear Regression statistical models.

➤ Well Redundancy Analysis is presented as Attachment B.

The well redundancy analysis is designed to eliminate "redundant" locations from the monitoring well network based on the sampling data. The analysis utilizes the Delauney statistical method which incorporates "slope factors" (SF). The SF values in MAROS are parameters indicating the relative importance of a location in the monitoring network and are not related to toxicology or carcinogenic risks. Generally any well for a key parameter with a SF value below 0.2 are marked as "eliminate". Results are shown for each indicator parameter at each well.

*Analysis:* Results by parameter indicate that a few wells could possibly be eliminated for analysis of that parameter. However, a comparison for all wells, considering all indicator parameters, does not recommend any of the 25 LTM wells for abandonment.

➤ Well Sufficiency Analysis – Potential New Well Locations are presented as Attachment C.

New location analysis figures were generated using an Excel template file that accompanies the MAROS program. The figures are plotted using the coordinates for each well, as uploaded into the software within the initial data input file. A legend is displayed on the right side of each graph. As indicated by this legend, potential areas for new locations are indicated by triangles with high SF levels. The larger the SF value, the greater the estimation error.

*Analysis:* As shown by these figures (Attachment C) no potential new well locations exist for alpha-BHC, arsenic, or dinoseb. However, a new potential well exists for TCE which is attributed to the offsite source that exists near BF-5. This issue has been addressed in previous reports and it has been determined that these results are not linked to the CIC Site. Therefore, no new location is recommended to be installed for TCE in relation to the CIC Site.

➤ Sampling Frequency Analysis Report is presented as Attachment D.

Sampling frequency analyses were determined, within MAROS, by analyzing the concentration trends of the indicator parameters in each well. Specifically, Mann-Kendall trend analysis results and the rate of

change by linear regression are used in the analysis. Trends for both the recent period of sampling and overall period of sampling are used in the analysis.

**Analysis:** Three types of recommended sampling frequencies are shown for each parameter in each well as indicated in Attachment D. Definitions are as follows:

- “Sampling Frequency” is the final recommendation determined based on overall and recent trends;
- “Recent Result” is the frequency determined based on the recent period of data; and
- “Overall Result” is the frequency determined based on an overall period of data.

For CIC, the overall period of data is all datasets from 2003 to the current dataset (5<sup>th</sup> Quarter LTM Event) for each well. The recent period of data is the dataset from the post OU2 remediation (2005) to the 5<sup>th</sup> Quarter LTM Event. The frequency based on recent data (middle column) is recommended to be used as the sampling frequency for CIC. This assessment includes all data after the OU2 remedy.

MAROS recommends the following schedule for sampling the LTM network:

Parameter	Frequency	Exceptions noted
alpha-BHC	annual	none
arsenic	annual	semi-annual for MW-6BR and MW-2I
dinoseb	annual	quarterly for BF-5
TCE	annual	quarterly for BF-4

#### *Lessons Learned*

- **System requirements and data input file.** One of the specific MAROS requirements is to operate the program using Microsoft Office 2000 or higher and Microsoft Access 2000 or higher versions. To satisfy the reference file library requirements of MAROS, the same versions of Office and Access should be used (i.e., 2000 or 2003). In addition, the input data file (required to be in either an Excel® spreadsheet or Access® spreadsheet) version should also coincide. Initial attempts were made to create the data file from EarthSoft's EQuIS (Environmental Quality Information System) program. Equis is an environmental data management system that is used to stored data generated from the CIC Site. However, spreadsheets generated from another application, such as EQuIS, were found to cause some issues within the MAROS program. Particularly, the cells may look empty, but actually contained some formatting within the file. Moreover, cells that contained the numerical results for the sampling event were incorrectly formatted as text. While uploading to MAROS, the data results were not read as sample data points and were then ignored.
- **Datasets.** The data set generated for MAROS met the minimum requirements; however, as noted above, the statistical modeling results are affected by the lack of more detections. Statistical summary reports generated from one data detection are difficult to validate. The statistical program uses ½ the detection limit for the remainder of the non-detect results. Also, statistical data generated from five rounds of data where the overall trend may seem to be decreasing, but variations exist in between, appear to have “no trend” within the MAROS program due to differences between small values.

- Hydrogeological data (site detail) and plume extents. MAROS requires simple aquifer parameters for some calculations within the statistical analyses. It is important to know all these parameters, and have an understanding of the geology of the site. The source for this site was identified as a single source, with a point adjacent to the former lagoons. If a source should be noted as several areas, future MAROS runs will incorporate the latitude and longitude coordinates.
- Plume extents are also included in the site details as the approximate limits of the plume width/length. Generating plume maps for each event could be useful in observing the extents of the plume after each sampling event.

### 3. Project Recommendations and Conclusions

#### *Recommendations*

- MAROS results were generated for the four indicator parameters – alpha-BHC, arsenic, dinoseb, and TCE. The maximum number of compounds to run the MAROS modeling program is five. The indicator parameters are examples of compounds that have detections associated with them and in some cases show trends. The MAROS program optimization is most likely suited for sites with an abundance of monitoring wells which have had multiple detections over many sampling events. For CIC, the majority of the wells contain non-detect concentrations for the key parameters. Statistics on the “non-detect” values indicated a stable plume. A careful review of all existing data for CIC should be performed for any other constituents of concern that could be utilized in the MAROS statistical modeling for CIC.
- Analyses of the recommendations for the sampling frequency, well abandonment, and potential new locations, are included in this memorandum. Sampling frequency recommendation resulted in an annual schedule for all indicator parameters in almost all wells. New well locations were biased towards potential of a new well because of the offsite source of TCE. And finally, the well redundancy analysis did not result in sampling being completely terminated for any one well for all parameters. These recommendations are based on many variables within the MAROS program defined by the user – data results, hydrogeological parameters, plume extents, and source/receptor locations. All of these parameters could affect the MAROS results, as they are used in the calculations the program performs. Therefore, the user should not solely rely on the recommendations unless the input variables are carefully checked and agreed to by all parties involved. Results of the analysis should be used as a discussion starting point in the decision making process.
- An analysis was provided for many of the key reports in MAROS to determine if MAROS is suitable to support recommendations for the CIC LTM network. For this site, the MAROS reports will be used to supplement the decision (already discussed by key stakeholders) that the frequency of the sampling should be decreased and used to support the decision making process.

**Table 1 – Monitoring Well Information**

## Chemical Insecticide Corporation

Edison, NJ

Table 1 - Monitoring Well Information

Monitoring Well ID	Total Depth Installed (feet bgs) <sup>1</sup>	Screen Interval (feet bgs)	alpha-BHC		arsenic		dinoseb		TCE	
			Number of Samples <sup>2</sup>							
BF-2	34.5	24.5-34.5	7	7	7	7	6	0	7	7
BF-2D	90	80-90	7	7	7	6	6	1	7	7
BF-4	85.4	75.4-85.4	6	2	6	0	5	0	6	1
BF-5	35.35	25.35-35.35	7	0	7	0	4	1	6	6
FU	15	5-15	7	4	7	1	6	6	6	1
GU	36	26-36	5	0	6	2	5	1	6	1
MW-1BRD	100	90-100	7	0	8	2	4	0	8	0
MW-1BRS	45	35-45	7	0	8	0	5	1	8	2
MW-2BR	90	80-90	7	0	8	5	5	0	8	0
MW-2I	35	25-35	7	0	7	3	5	0	7	0
MW-2S	14	4-14	7	0	7	3	6	0	7	0
MW-3BR	38	28-38	6	0	7	2	6	0	7	1
MW-3S	14	4-14	6	0	7	2	6	0	6	0
MW-4BR	58	48-58	7	0	7	3	5	0	7	0
MW-4S	17	7-17	7	0	7	1	5	0	7	0
MW-5BR	63	53-63	5	5	5	5	4	0	5	0
MW-6BR	79	63-79	5	0	5	0	4	0	4	4
MW-7BR	44	34-44	5	0	5	1	4	0	5	5
MW-8BR	63	53-63	5	0	5	2	4	0	5	5
NUS-2D	105	89-105	8	0	8	3	6	0	7	1
NUS-3D	43	25-43	7	1	7	2	5	0	7	0
NUS-3S	14	4-14	7	0	7	1	5	0	7	0
OU <sup>3</sup>	8.5	3.5-8.5	**	**	**	**	**	**	**	**
QD	48	38-48	7	5	7	1	7	7	6	6
UU	18	8-18	6	0	7	5	5	0	7	7

## Notes:

(1) - "Total Depth Installed" and "Screen Interval" data are based on available information reviewed at the start of this project including boring logs, well construction logs, and NJDEP well records and that, as such, may not be completely accurate since the work was conducted by other contractors.

(2) - Difference in Number of Samples is due to one or more of the following reasons as stated in a, b, and c. below:

a. All wells were not sampled 2003 and 2005 EPA sampling events

b. MW-5BR, MW-6BR, MW-7BR, MW-8BR were installed in 2007

c. Herbicide analysis was removed from the sampling program for most wells.

(3) - Well OU was not used in the MAROS evaluation due to lack of datasets from low recharge

**Table 2 – Import data spreadsheet  
(by Well ID)**

**Chemical Insecticide Corporation**  
**Edison, NJ**

**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
BF-2	529088.8	617318.0	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	7/1/2003	47	ug/L	0.05	
BF-2	529088.8	617318.0	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/21/2006	5.2	ug/L	0.05	
BF-2	529088.8	617318.0	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	7/31/2007	4.5	ug/L	0.05	
BF-2	529088.8	617318.0	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/20/2007	3.4	ug/L	0.05	
BF-2	529088.8	617318.0	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	3/26/2008	3.9	ug/L	0.05	
BF-2	529088.8	617318.0	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	6/17/2008	2.9	ug/L	0.05	
BF-2	529088.8	617318.0	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	9/16/2008	3.8	ug/L	0.05	
BF-2	529088.8	617318.0	ARSENIC	7/1/2003	12700	ug/L	20	
BF-2	529088.8	617318.0	ARSENIC	12/21/2006	1100	ug/L	20	
BF-2	529088.8	617318.0	ARSENIC	7/31/2007	832	ug/L	20	
BF-2	529088.8	617318.0	ARSENIC	12/20/2007	703	ug/L	20	
BF-2	529088.8	617318.0	ARSENIC	3/26/2008	1000	ug/L	20	
BF-2	529088.8	617318.0	ARSENIC	6/17/2008	760	ug/L	20	
BF-2	529088.8	617318.0	ARSENIC	9/16/2008	780	ug/L	20	
BF-2	529088.8	617318.0	DINOSEB	7/1/2003		ug/L	0.5	ND
BF-2	529088.8	617318.0	DINOSEB	12/21/2006		ug/L	0.5	ND
BF-2	529088.8	617318.0	DINOSEB	7/31/2007		ug/L	0.5	ND
BF-2	529088.8	617318.0	DINOSEB	12/20/2007		ug/L	0.5	ND
BF-2	529088.8	617318.0	DINOSEB	3/26/2008		ug/L	0.5	ND
BF-2	529088.8	617318.0	DINOSEB	6/17/2008		ug/L	0.91	ND
BF-2	529088.8	617318.0	TRICHLOROETHYLENE (TCE)	7/1/2003	4.2	ug/L	1	
BF-2	529088.8	617318.0	TRICHLOROETHYLENE (TCE)	12/21/2006	3.5	ug/L	0.5	
BF-2	529088.8	617318.0	TRICHLOROETHYLENE (TCE)	7/26/2007	3.7	ug/L	0.5	
BF-2	529088.8	617318.0	TRICHLOROETHYLENE (TCE)	12/20/2007	2.6	ug/L	0.5	
BF-2	529088.8	617318.0	TRICHLOROETHYLENE (TCE)	6/17/2008	2.4	ug/L	0.5	
BF-2	529088.8	617318.0	TRICHLOROETHYLENE (TCE)	3/26/2008	2.4	ug/L	0.5	
BF-2	529088.8	617318.0	TRICHLOROETHYLENE (TCE)	9/16/2008	2.8	ug/L	0.5	

**Chemical Insecticide Corporation**  
**Edison, NJ**

**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
BF-2D	529046.4	617366.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	10/19/2005	3.4	ug/L	0.05	
BF-2D	529046.4	617366.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/21/2006	5.1	ug/L	0.05	
BF-2D	529046.4	617366.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	7/26/2007	8.5	ug/L	0.05	
BF-2D	529046.4	617366.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	6/17/2008	3.3	ug/L	0.05	
BF-2D	529046.4	617366.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/20/2007	6.7	ug/L	0.05	
BF-2D	529046.4	617366.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	3/26/2008	2.6	ug/L	0.05	
BF-2D	529046.4	617366.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	9/16/2008	3.1	ug/L	0.05	
BF-2D	529046.4	617366.4	ARSENIC	10/19/2005	25.9	ug/L	20	
BF-2D	529046.4	617366.4	ARSENIC	12/21/2006		ug/L	20	ND
BF-2D	529046.4	617366.4	ARSENIC	7/26/2007	23.9	ug/L	8	
BF-2D	529046.4	617366.4	ARSENIC	6/17/2008	14	ug/L	1	
BF-2D	529046.4	617366.4	ARSENIC	12/20/2007	21	ug/L	8	
BF-2D	529046.4	617366.4	ARSENIC	3/26/2008	11	ug/L	8	
BF-2D	529046.4	617366.4	ARSENIC	9/16/2008	9.9	ug/L	8	
BF-2D	529046.4	617366.4	DINOSEB	12/21/2006		ug/L	0.5	ND
BF-2D	529046.4	617366.4	DINOSEB	7/26/2007		ug/L	0.5	ND
BF-2D	529046.4	617366.4	DINOSEB	6/17/2008		ug/L	0.9	ND
BF-2D	529046.4	617366.4	DINOSEB	12/20/2007		ug/L	0.59	ND
BF-2D	529046.4	617366.4	DINOSEB	3/26/2008	0.91	ug/L	0.5	
BF-2D	529046.4	617366.4	DINOSEB	9/16/2008		ug/L	0.9	ND
BF-2D	529046.4	617366.4	TRICHLOROETHYLENE (TCE)	10/19/2005	1.9	ug/L		
BF-2D	529046.4	617366.4	TRICHLOROETHYLENE (TCE)	12/21/2006	4.4	ug/L		
BF-2D	529046.4	617366.4	TRICHLOROETHYLENE (TCE)	7/26/2007	8.1	ug/L		
BF-2D	529046.4	617366.4	TRICHLOROETHYLENE (TCE)	6/17/2008	3.1	ug/L		
BF-2D	529046.4	617366.4	TRICHLOROETHYLENE (TCE)	12/20/2007	5.1	ug/L		
BF-2D	529046.4	617366.4	TRICHLOROETHYLENE (TCE)	3/26/2008	1	ug/L		
BF-2D	529046.4	617366.4	TRICHLOROETHYLENE (TCE)	9/16/2008	1.6	ug/L		

**Chemical Insecticide Corporation**  
**Edison, NJ**

**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
BF-4	529619.1	617180.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/20/2006	4.2	ug/L		
BF-4	529619.1	617180.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/31/2007	3.1	ug/L		
BF-4	529619.1	617180.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/20/2007		ug/L	0.05	ND
BF-4	529619.1	617180.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/26/2008		ug/L	0.05	ND
BF-4	529619.1	617180.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/17/2008		ug/L	0.05	ND
BF-4	529619.1	617180.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/17/2008		ug/L	0.0026	ND
BF-4	529619.1	617180.5	ARSENIC	12/20/2006		ug/L	1	ND
BF-4	529619.1	617180.5	ARSENIC	7/31/2007		ug/L	0.8	ND
BF-4	529619.1	617180.5	ARSENIC	12/20/2007		ug/L	1.6	ND
BF-4	529619.1	617180.5	ARSENIC	3/26/2008		ug/L	8	ND
BF-4	529619.1	617180.5	ARSENIC	6/17/2008		ug/L	1	ND
BF-4	529619.1	617180.5	ARSÉNIC	9/17/2008		ug/L	8	ND
BF-4	529619.1	617180.5	DINOSEB	12/20/2006		ug/L	0.5	ND
BF-4	529619.1	617180.5	DINOSÉB	7/31/2007		ug/L	0.5	ND
BF-4	529619.1	617180.5	DINOSEB	12/20/2007		ug/L	0.5	ND
BF-4	529619.1	617180.5	DINOSEB	3/26/2008		ug/L	0.5	ND
BF-4	529619.1	617180.5	DINOSEB	6/17/2008		ug/L	0.9	ND
BF-4	529619.1	617180.5	TRICHLOROETHYLENE (TCE)	12/20/2006		ug/L	1	ND
BF-4	529619.1	617180.5	TRICHLOROETHYLENE (TCE)	7/31/2007		ug/L	1	ND
BF-4	529619.1	617180.5	TRICHLOROETHYLENE (TCE)	12/20/2007		ug/L	0.5	ND
BF-4	529619.1	617180.5	TRICHLOROETHYLENE (TCE)	3/26/2008		ug/L	0.5	ND
BF-4	529619.1	617180.5	TRICHLOROETHYLENE (TCE)	6/17/2008		ug/L	0.5	ND
BF-4	529619.1	617180.5	TRICHLOROETHYLENE (TCE)	9/17/2008	4.4	ug/L	0.5	

**Chemical Insecticide Corporation**  
**Edison, NJ**

**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
BF-5	530061.2	616806.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/7/2003		ug/L	0.053	ND
BF-5	530061.2	616806.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/21/2006		ug/L	0.048	ND
BF-5	530061.2	616806.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/26/2007		ug/L	0.0024	ND
BF-5	530061.2	616806.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/20/2007		ug/L	0.05	ND
BF-5	530061.2	616806.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/27/2008		ug/L	0.05	ND
BF-5	530061.2	616806.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/18/2008		ug/L	0.048	ND
BF-5	530061.2	616806.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/17/2008		ug/L	0.0026	ND
BF-5	530061.2	616806.0	ARSENIC	7/7/2003		ug/L	3.4	ND
BF-5	530061.2	616806.0	ARSENIC	12/21/2006		ug/L	1.6	ND
BF-5	530061.2	616806.0	ARSENIC	7/26/2007		ug/L	0.8	ND
BF-5	530061.2	616806.0	ARSENIC	12/20/2007		ug/L	1	ND
BF-5	530061.2	616806.0	ARSENIC	3/27/2008		ug/L	8	ND
BF-5	530061.2	616806.0	ARSENIC	6/18/2008		ug/L	1	ND
BF-5	530061.2	616806.0	ARSENIC	9/17/2008		ug/L	8	ND
BF-5	530061.2	616806.0	DINOSEB	7/26/2007		ug/L	0.05	ND
BF-5	530061.2	616806.0	DINOSEB	12/20/2007		ug/L	0.05	ND
BF-5	530061.2	616806.0	DINOSEB	3/27/2008		ug/L	0.5	ND
BF-5	530061.2	616806.0	DINOSEB	6/18/2008		ug/L	0.9	ND
BF-5	530061.2	616806.0	DINOSEB	6/18/2008	1700	ug/L	1	
BF-5	530061.2	616806.0	TRICHLOROETHYLENE (TCE)	12/21/2006	1700	ug/L	1	
BF-5	530061.2	616806.0	TRICHLOROETHYLENE (TCE)	7/26/2007	1500	ug/L	1	
BF-5	530061.2	616806.0	TRICHLOROETHYLENE (TCE)	12/20/2007	1600	ug/L	0.5	
BF-5	530061.2	616806.0	TRICHLOROETHYLENE (TCE)	3/27/2008	1300	ug/L	0.5	
BF-5	530061.2	616806.0	TRICHLOROETHYLENE (TCE)	6/18/2008	1400	ug/L	0.5	
BF-5	530061.2	616806.0	TRICHLOROETHYLENE (TCE)	9/17/2008	1800	ug/L	0.5	

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
FU	529626.8	616815.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/8/2003		ug/L	0.05	ND
FU	529626.8	616815.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/20/2006		ug/L	0.05	ND
FU	529626.8	616815.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/25/2007		ug/L	0.05	ND
FU	529626.8	616815.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2007	0.035	ug/L	0.05	
FU	529626.8	616815.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/26/2008	0.036	ug/L	0.05	
FU	529626.8	616815.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/17/2008	0.032	ug/L	0.05	
FU	529626.8	616815.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/16/2008	0.039	ug/L	0.0026	
FU	529626.8	616815.4	ARSENIC	7/8/2003		ug/L	3.4	ND
FU	529626.8	616815.4	ARSENIC	12/20/2006		ug/L	1.6	ND
FU	529626.8	616815.4	ARSENIC	7/25/2007		ug/L	0.8	ND
FU	529626.8	616815.4	ARSENIC	12/19/2007	0.43	ug/L		
FU	529626.8	616815.4	ARSENIC	3/26/2008		ug/L	8	ND
FU	529626.8	616815.4	ARSENIC	6/17/2008		ug/L	1	ND
FU	529626.8	616815.4	ARSENIC	9/16/2008		ug/L	8	ND
FU	529626.8	616815.4	DINOSEB	7/8/2003	3.2	ug/L	0.5	
FU	529626.8	616815.4	DINOSEB	12/20/2006	4.1	ug/L	0.5	
FU	529626.8	616815.4	DINOSEB	7/25/2007	3.3	ug/L	0.5	
FU	529626.8	616815.4	DINOSEB	12/19/2007	1.1	ug/L	0.5	
FU	529626.8	616815.4	DINOSEB	3/26/2008	3.9	ug/L	0.5	
FU	529626.8	616815.4	DINOSEB	6/17/2008	3.8	ug/L	0.9	
FU	529626.8	616815.4	TRICHLOROETHYLENE (TCE)	12/20/2006		ug/L	1	ND
FU	529626.8	616815.4	TRICHLOROETHYLENE (TCE)	7/25/2007		ug/L	1	ND
FU	529626.8	616815.4	TRICHLOROETHYLENE (TCE)	12/19/2007	0.11	ug/L	0.5	
FU	529626.8	616815.4	TRICHLOROETHYLENE (TCE)	3/26/2008		ug/L	0.5	ND
FU	529626.8	616815.4	TRICHLOROETHYLENE (TCE)	6/17/2008		ug/L	0.5	ND
FU	529626.8	616815.4	TRICHLOROETHYLENE (TCE)	9/16/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
GU 529627.5	617084.7	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN		9/16/2008		ug/L	0.05	ND
GU 529627.5	617084.7	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN		7/31/2007		ug/L	0.05	ND
GU 529627.5	617084.7	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN		12/20/2007		ug/L	0.049	ND
GU 529627.5	617084.7	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN		3/27/2008		ug/L	0.0025	ND
GU 529627.5	617084.7	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN		6/17/2008		ug/L	0.047	ND
GU 529627.5	617084.7	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN		9/17/2008		ug/L	0.0024	ND
GU 529627.5	617084.7	ARSENIC		12/20/2006		ug/L	1.6	ND
GU 529627.5	617084.7	ARSENIC		7/31/2007	5.1	ug/L	1	
GU 529627.5	617084.7	ARSENIC		12/20/2007		ug/L	1.5	ND
GU 529627.5	617084.7	ARSENIC		3/27/2008		ug/L	8	ND
GU 529627.5	617084.7	ARSENIC		6/17/2008	3.5	ug/L	1	
GU 529627.5	617084.7	ARSENIC		9/17/2008		ug/L	8	ND
GU 529627.5	617084.7	DINOSEB		12/20/2006		ug/L	0.5	ND
GU 529627.5	617084.7	DINOSEB		7/31/2007		ug/L	0.5	ND
GU 529627.5	617084.7	DINOSEB		12/20/2007		ug/L	0.5	ND
GU 529627.5	617084.7	DINOSEB		3/27/2008	0.57	ug/L	0.5	
GU 529627.5	617084.7	DINOSEB		6/17/2008		ug/L	0.9	ND
GU 529627.5	617084.7	TRICHLOROETHYLENE (TCE)		12/20/2006		ug/L	1	ND
GU 529627.5	617084.7	TRICHLOROETHYLENE (TCE)		7/31/2007		ug/L	1	ND
GU 529627.5	617084.7	TRICHLOROETHYLENE (TCE)		12/20/2007		ug/L	0.5	ND
GU 529627.5	617084.7	TRICHLOROETHYLENE (TCE)		3/27/2008	1.9	ug/L		
GU 529627.5	617084.7	TRICHLOROETHYLENE (TCE)		6/17/2008		ug/L	0.5	ND
GU 529627.5	617084.7	TRICHLOROETHYLENE (TCE)		9/17/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-1BRD	528988.7	617758.6	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	10/20/2005		ug/L	0.01	ND
MW-1BRD	528988.7	617758.6	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2006		ug/L	0.05	ND
MW-1BRD	528988.7	617758.6	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/30/2007		ug/L	0.05	ND
MW-1BRD	528988.7	617758.6	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/18/2007		ug/L	0.05	ND
MW-1BRD	528988.7	617758.6	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/25/2008		ug/L	0.024	ND
MW-1BRD	528988.7	617758.6	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/16/2008		ug/L	0.05	ND
MW-1BRD	528988.7	617758.6	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/15/2008		ug/L	0.0024	ND
MW-1BRD	528988.7	617758.6	ARSENIC	7/9/2003		ug/L	3.4	ND
MW-1BRD	528988.7	617758.6	ARSENIC	10/20/2005	1.9	ug/L	1	
MW-1BRD	528988.7	617758.6	ARSENIC	12/19/2006		ug/L	1.6	ND
MW-1BRD	528988.7	617758.6	ARSENIC	7/30/2007		ug/L	0.8	ND
MW-1BRD	528988.7	617758.6	ARSENIC	12/18/2007	2.	ug/L	1	
MW-1BRD	528988.7	617758.6	ARSENIC	3/25/2008		ug/L	8	ND
MW-1BRD	528988.7	617758.6	ARSENIC	6/16/2008		ug/L	1	ND
MW-1BRD	528988.7	617758.6	ARSENIC	9/15/2008		ug/L	8	ND
MW-1BRD	528988.7	617758.6	ARSENIC	9/15/2008		ug/L	0.27	ND
MW-1BRD	528988.7	617758.6	DINOSEB	12/19/2006		ug/L	0.5	ND
MW-1BRD	528988.7	617758.6	DINOSEB	7/30/2007		ug/L	0.5	ND
MW-1BRD	528988.7	617758.6	DINOSEB	12/18/2007		ug/L	0.5	ND
MW-1BRD	528988.7	617758.6	DINOSEB	3/25/2008		ug/L	0.5	ND
MW-1BRD	528988.7	617758.6	TRICHLOROETHYLENE (TCE)	7/9/2003		ug/L	1	ND
MW-1BRD	528988.7	617758.6	TRICHLOROETHYLENE (TCE)	10/20/2005		ug/L	0.5	ND
MW-1BRD	528988.7	617758.6	TRICHLOROETHYLENE (TCE)	12/19/2006		ug/L	1	ND
MW-1BRD	528988.7	617758.6	TRICHLOROETHYLENE (TCE)	7/30/2007		ug/L	1	ND
MW-1BRD	528988.7	617758.6	TRICHLOROETHYLENE (TCE)	12/18/2007		ug/L	0.5	ND
MW-1BRD	528988.7	617758.6	TRICHLOROETHYLENE (TCÉ)	3/25/2008		ug/L	0.5	ND
MW-1BRD	528988.7	617758.6	TRICHLOROETHYLENE (TCE)	6/16/2008		ug/L	0.5	ND
MW-1BRD	528988.7	617758.6	TRICHLOROETHYLENE (TCE)	9/15/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-1BRS	528979.4	617750.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	10/20/2005		ug/L	0.01	ND
MW-1BRS	528979.4	617750.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2006		ug/L	0.05	ND
MW-1BRS	528979.4	617750.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/30/2007		ug/L	0.05	ND
MW-1BRS	528979.4	617750.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/18/2007		ug/L	0.05	ND
MW-1BRS	528979.4	617750.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/25/2008		ug/L	0.0026	ND
MW-1BRS	528979.4	617750.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/16/2008		ug/L	0.05	ND
MW-1BRS	528979.4	617750.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/15/2008		ug/L	0.0024	ND
MW-1BRS	528979.4	617750.9	ARSENIC	7/9/2003		ug/L	3.4	ND
MW-1BRS	528979.4	617750.9	ARSENIC	10/20/2005		ug/L	1	ND
MW-1BRS	528979.4	617750.9	ARSENIC	12/19/2006		ug/L	1.6	ND
MW-1BRS	528979.4	617750.9	ARSENIC	7/30/2007		ug/L	0.8	ND
MW-1BRS	528979.4	617750.9	ARSÉNIC	12/18/2007		ug/L	1	ND
MW-1BRS	528979.4	617750.9	ARSENIC	3/25/2008		ug/L	8	ND
MW-1BRS	528979.4	617750.9	ARSENIC	6/16/2008		ug/L	1	ND
MW-1BRS	528979.4	617750.9	ARSENIC	9/15/2008		ug/L	8	ND
MW-1BRS	528979.4	617750.9	DINOSEB	10/20/2005	0.26	ug/L	0.27	
MW-1BRS	528979.4	617750.9	DINOSEB	12/19/2006		ug/L	0.5	ND
MW-1BRS	528979.4	617750.9	DINOSEB	7/30/2007		ug/L	0.5	ND
MW-1BRS	528979.4	617750.9	DINOSEB	12/18/2007		ug/L	0.5	ND
MW-1BRS	528979.4	617750.9	DINOSEB	3/25/2008		ug/L	0.5	ND
MW-1BRS	528979.4	617750.9	TRICHLOROETHYLENE (TCE)	7/9/2003		ug/L	1	ND
MW-1BRS	528979.4	617750.9	TRICHLOROETHYLENE (TCE)	10/20/2005	0.16	ug/L	0.5	
MW-1BRS	528979.4	617750.9	TRICHLOROETHYLENE (TCE)	12/19/2006		ug/L	1	ND
MW-1BRS	528979.4	617750.9	TRICHLOROETHYLENE (TCE)	7/30/2007		ug/L	1	ND
MW-1BRS	528979.4	617750.9	TRICHLOROETHYLENE (TCE)	12/18/2007	0.2	ug/L	0.5	
MW-1BRS	528979.4	617750.9	TRICHLOROETHYLENE (TCE)	3/25/2008		ug/L	0.5	ND
MW-1BRS	528979.4	617750.9	TRICHLOROETHYLENE (TCE)	6/16/2008		ug/L	0.5	ND
MW-1BRS	528979.4	617750.9	TRICHLOROETHYLENE (TCE)	9/15/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-2BR	529713.2	617522.1	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	10/20/2005		ug/L	0.01	ND
MW-2BR	529713.2	617522.1	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/20/2006		ug/L	0.05	ND
MW-2BR	529713.2	617522.1	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/30/2007		ug/L	0.05	ND
MW-2BR	529713.2	617522.1	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2007		ug/L	0.05	ND
MW-2BR	529713.2	617522.1	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/25/2008		ug/L	0.0026	ND
MW-2BR	529713.2	617522.1	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/16/2008		ug/L	0.047	ND
MW-2BR	529713.2	617522.1	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/15/2008		ug/L	0.0024	ND
MW-2BR	529713.2	617522.1	ARSENIC	6/27/2003		ug/L	3.4	ND
MW-2BR	529713.2	617522.1	ARSENIC	10/20/2005	2.8	ug/L	1	
MW-2BR	529713.2	617522.1	ARSENIC	12/20/2006	2.8	ug/L	1	
MW-2BR	529713.2	617522.1	ARSENIC	7/30/2007	3.2	ug/L	0.8	
MW-2BR	529713.2	617522.1	ARSENIC	12/19/2007	3.8	ug/L		
MW-2BR	529713.2	617522.1	ARSENIC	3/25/2008		ug/L	8	ND
MW-2BR	529713.2	617522.1	ARSENIC	6/16/2008	2.7	ug/L	1	
MW-2BR	529713.2	617522.1	ARSENIC	9/15/2008		ug/L	8	ND
MW-2BR	529713.2	617522.1	DINOSEB	10/20/2005		ug/L	0.27	ND
MW-2BR	529713.2	617522.1	DINOSEB	12/20/2006		ug/L	0.5	ND
MW-2BR	529713.2	617522.1	DINOSEB	7/30/2007		ug/L	0.5	ND
MW-2BR	529713.2	617522.1	DINOSEB	12/19/2007		ug/L	0.5	ND
MW-2BR	529713.2	617522.1	DINOSEB	3/25/2008		ug/L	0.5	ND
MW-2BR	529713.2	617522.1	TRICHLOROETHYLENE (TCE)	6/27/2003		ug/L	1	ND
MW-2BR	529713.2	617522.1	TRICHLOROETHYLÉNE (TCE)	10/20/2005		ug/L	0.5	ND
MW-2BR	529713.2	617522.1	TRICHLOROETHYLÉNE (TCE)	12/20/2006		ug/L	1	ND
MW-2BR	529713.2	617522.1	TRICHLOROETHYLENE (TCE)	7/30/2007		ug/L	1	ND
MW-2BR	529713.2	617522.1	TRICHLOROETHYLENE (TCE)	12/19/2007		ug/L	0.5	ND
MW-2BR	529713.2	617522.1	TRICHLOROETHYLENE (TCE)	3/25/2008		ug/L	0.5	ND
MW-2BR	529713.2	617522.1	TRICHLOROETHYLENE (TCE)	6/16/2008		ug/L	0.5	ND
MW-2BR	529713.2	617522.1	TRICHLOROETHYLENE (TCE)	9/15/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-2I	529700.4	617510.3	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	10/20/2005		ug/L	0.01	ND
MW-2I	529700.4	617510.3	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2006		ug/L	0.05	ND
MW-2I	529700.4	617510.3	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/30/2007		ug/L	0.05	ND
MW-2I	529700.4	617510.3	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2007		ug/L	0.05	ND
MW-2I	529700.4	617510.3	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/25/2008		ug/L	0.0025	ND
MW-2I	529700.4	617510.3	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/16/2008		ug/L	0.05	ND
MW-2I	529700.4	617510.3	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/16/2008		ug/L	0.0024	ND
MW-2I	529700.4	617510.3	ARSENIC	10/20/2005	2.2	ug/L	1	
MW-2I	529700.4	617510.3	ARSENIC	12/19/2006		ug/L	1.6	ND
MW-2I	529700.4	617510.3	ARSENIC	7/30/2007		ug/L	0.8	ND
MW-2I	529700.4	617510.3	ARSENIC	12/19/2007	1.5	ug/L	1	
MW-2I	529700.4	617510.3	ARSENIC	3/25/2008		ug/L	8	ND
MW-2I	529700.4	617510.3	ARSENIC	6/16/2008	1.9	ug/L	1	
MW-2I	529700.4	617510.3	ARSENIC	9/16/2008		ug/L	8	ND
MW-2I	529700.4	617510.3	DINOSEB	10/20/2005		ug/L	0.27	ND
MW-2I	529700.4	617510.3	DINOSEB	12/19/2006		ug/L	0.5	ND
MW-2I	529700.4	617510.3	DINOSEB	7/30/2007		ug/L	0.5	ND
MW-2I	529700.4	617510.3	DINOSEB	12/19/2007		ug/L	0.5	ND
MW-2I	529700.4	617510.3	DINOSEB	3/25/2008		ug/L	0.5	ND
MW-2I	529700.4	617510.3	TRICHLOROETHYLENE (TCE)	10/20/2005		ug/L	0.5	ND
MW-2I	529700.4	617510.3	TRICHLOROETHYLENE (TCE)	12/19/2006		ug/L	1	ND
MW-2I	529700.4	617510.3	TRICHLOROETHYLENE (TCE)	7/30/2007		ug/L	1	ND
MW-2I	529700.4	617510.3	TRICHLOROETHYLENE (TCE)	12/19/2007		ug/L	0.5	ND
MW-2I	529700.4	617510.3	TRICHLOROETHYLENE (TCE)	3/25/2008		ug/L	0.5	ND
MW-2I	529700.4	617510.3	TRICHLOROETHYLENE (TCE)	6/16/2008		ug/L	0.5	ND
MW-2I	529700.4	617510.3	TRICHLOROETHYLENE (TCE)	9/16/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-2S	529705	617515.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	10/20/2005		ug/L	0.01	ND
MW-2S	529705	617515.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/19/2006		ug/L	0.05	ND
MW-2S	529705	617515.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	7/30/2007		ug/L	0.05	ND
MW-2S	529705	617515.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/19/2007		ug/L	0.05	ND
MW-2S	529705	617515.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	3/25/2008		ug/L	0.0025	ND
MW-2S	529705	617515.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	6/16/2008		ug/L	0.048	ND
MW-2S	529705	617515.4	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	9/16/2008		ug/L	0.0024	ND
MW-2S	529705	617515.4	ARSENIC	10/20/2005	1.5	ug/L	1	
MW-2S	529705	617515.4	ARSENIC	12/19/2006	1.8	ug/L	1.6	
MW-2S	529705	617515.4	ARSENIC	7/30/2007		ug/L	10	ND
MW-2S	529705	617515.4	ARSENIC	12/19/2007	2.1	ug/L	1	
MW-2S	529705	617515.4	ARSENIC	3/25/2008		ug/L	8	ND
MW-2S	529705	617515.4	ARSENIC	6/16/2008		ug/L	1	ND
MW-2S	529705	617515.4	ARSENIC	9/16/2008		ug/L	8	ND
MW-2S	529705	617515.4	DINOSEB	10/20/2005		ug/L	0.27	ND
MW-2S	529705	617515.4	DINOSEB	12/19/2006		ug/L	0.5	ND
MW-2S	529705	617515.4	DINOSEB	7/30/2007		ug/L	0.5	ND
MW-2S	529705	617515.4	DINOSEB	12/19/2007		ug/L	0.5	ND
MW-2S	529705	617515.4	DINOSEB	3/25/2008		ug/L	0.5	ND
MW-2S	529705	617515.4	DINOSEB	6/16/2008		ug/L	0.96	ND
MW-2S	529705	617515.4	TRICHLOROETHYLENE (TCE)	10/20/2005		ug/L	0.5	ND
MW-2S	529705	617515.4	TRICHLOROETHYLENE (TCE)	12/19/2006		ug/L	1	ND
MW-2S	529705	617515.4	TRICHLOROETHYLENE (TCE)	7/30/2007		ug/L	1	ND
MW-2S	529705	617515.4	TRICHLOROETHYLENE (TCE)	12/19/2007		ug/L	0.5	ND
MW-2S	529705	617515.4	TRICHLOROETHYLÉNE (TCE)	3/25/2008		ug/L	0.5	ND
MW-2S	529705	617515.4	TRICHLOROETHYLENE (TCE)	6/16/2008		ug/L	0.5	ND
MW-2S	529705	617515.4	TRICHLOROETHYLENE (TCE)	9/16/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-3BR	531000.7	616365.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/20/2006		ug/L	0.05	ND
MW-3BR	531000.7	616365.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/25/2007		ug/L	0.05	ND
MW-3BR	531000.7	616365.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/20/2007		ug/L	0.049	ND
MW-3BR	531000.7	616365.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/25/2008		ug/L	0.0024	ND
MW-3BR	531000.7	616365.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/18/2008		ug/L	0.05	ND
MW-3BR	531000.7	616365.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/16/2008		ug/L	0.0024	ND
MW-3BR	531000.7	616365.4	ARSENIC	6/30/2003	3.5	ug/L	1	
MW-3BR	531000.7	616365.4	ARSENIC	12/20/2006		ug/L	1.6	ND
MW-3BR	531000.7	616365.4	ARSENIC	7/25/2007		ug/L	10	ND
MW-3BR	531000.7	616365.4	ARSENIC	12/20/2007	1.8	ug/L	1	
MW-3BR	531000.7	616365.4	ARSENIC	3/25/2008		ug/L	8	ND
MW-3BR	531000.7	616365.4	ARSENIC	6/18/2008		ug/L	1	ND
MW-3BR	531000.7	616365.4	ARSENIC	9/16/2008		ug/L	8	ND
MW-3BR	531000.7	616365.4	DINOSEB	6/30/2003		ug/L	0.52	ND
MW-3BR	531000.7	616365.4	DINOSEB	12/20/2006		ug/L	0.5	ND
MW-3BR	531000.7	616365.4	DINOSEB	7/25/2007		ug/L	0.5	ND
MW-3BR	531000.7	616365.4	DINOSEB	12/20/2007		ug/L	0.5	ND
MW-3BR	531000.7	616365.4	DINOSEB	3/25/2008		ug/L	0.5	ND
MW-3BR	531000.7	616365.4	DINOSEB	6/18/2008		ug/L	0.96	ND
MW-3BR	531000.7	616365.4	TRICHLOROETHYLENE (TCE)	6/30/2003		ug/L	1	ND
MW-3BR	531000.7	616365.4	TRICHLOROETHYLENE (TCE)	12/20/2006		ug/L	1	ND
MW-3BR	531000.7	616365.4	TRICHLOROETHYLENE (TCE)	7/25/2007		ug/L	1	ND
MW-3BR	531000.7	616365.4	TRICHLOROETHYLENE (TCE)	12/20/2007	0.11	ug/L	0.5	
MW-3BR	531000.7	616365.4	TRICHLOROETHYLENE (TCE)	3/25/2008		ug/L	0.5	ND
MW-3BR	531000.7	616365.4	TRICHLOROETHYLENE (TCE)	6/18/2008		ug/L	0.5	ND
MW-3BR	531000.7	616365.4	TRICHLOROETHYLENE (TCE)	9/16/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-3S	531004.3	616342.9	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/20/2006		ug/L	0.05	ND
MW-3S	531004.3	616342.9	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	7/31/2007		ug/L	0.05	ND
MW-3S	531004.3	616342.9	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/20/2007		ug/L	0.05	ND
MW-3S	531004.3	616342.9	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	3/25/2008		ug/L	0.0024	ND
MW-3S	531004.3	616342.9	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	6/18/2008		ug/L	0.05	ND
MW-3S	531004.3	616342.9	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	9/16/2008		ug/L	0.0024	ND
MW-3S	531004.3	616342.9	ARSENIC	6/30/2003		ug/L	3.4	ND
MW-3S	531004.3	616342.9	ARSENIC	12/20/2006		ug/L	1.6	ND
MW-3S	531004.3	616342.9	ARSENIC	7/31/2007	4.6	ug/L	1	
MW-3S	531004.3	616342.9	ARSÉNIC	12/20/2007	1.1	ug/L	1	
MW-3S	531004.3	616342.9	ARSENIC	3/25/2008		ug/L	8	ND
MW-3S	531004.3	616342.9	ARSENIC	6/18/2008		ug/L	1	ND
MW-3S	531004.3	616342.9	ARSENIC	9/16/2008		ug/L	8	ND
MW-3S	531004.3	616342.9	DINOSEB	6/30/2003		ug/L	0.54	ND
MW-3S	531004.3	616342.9	DINOSEB	12/20/2006		ug/L	0.5	ND
MW-3S	531004.3	616342.9	DINOSEB	7/31/2007		ug/L	0.5	ND
MW-3S	531004.3	616342.9	DINOSEB	12/20/2007		ug/L	0.5	ND
MW-3S	531004.3	616342.9	DINOSEB	3/25/2008		ug/L	0.5	ND
MW-3S	531004.3	616342.9	DINOSEB	6/18/2008		ug/L	0.97	ND
MW-3S	531004.3	616342.9	TRICHLOROETHYLENE (TCE)	12/20/2006		ug/L	1	ND
MW-3S	531004.3	616342.9	TRICHLOROETHYLENE (TCE)	7/31/2007		ug/L	1	ND
MW-3S	531004.3	616342.9	TRICHLOROETHYLENE (TCE)	12/20/2007		ug/L	0.5	ND
MW-3S	531004.3	616342.9	TRICHLOROETHYLENE (TCE)	3/25/2008		ug/L	0.5	ND
MW-3S	531004.3	616342.9	TRICHLOROETHYLENE (TCE)	6/18/2008		ug/L	0.5	ND
MW-3S	531004.3	616342.9	TRICHLOROETHYLENE (TCE)	9/16/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-4BR	528348.2	617588.6	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	10/19/2005		ug/L	0.01	ND
MW-4BR	528348.2	617588.6	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/18/2006		ug/L	0.05	ND
MW-4BR	528348.2	617588.6	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	7/25/2007		ug/L	0.05	ND
MW-4BR	528348.2	617588.6	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/18/2007		ug/L	0.05	ND
MW-4BR	528348.2	617588.6	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	3/24/2008		ug/L	0.0025	ND
MW-4BR	528348.2	617588.6	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	6/16/2008		ug/L	0.047	ND
MW-4BR	528348.2	617588.6	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	9/15/2008		ug/L	0.0024	ND
MW-4BR	528348.2	617588.6	ARSENIC	10/19/2005	1.1	ug/L	1	
MW-4BR	528348.2	617588.6	ARSENIC	12/18/2006		ug/L	1.6	ND
MW-4BR	528348.2	617588.6	ARSENIC	7/25/2007		ug/L	10	ND
MW-4BR	528348.2	617588.6	ARSENIC	12/18/2007	2.4	ug/L	1	
MW-4BR	528348.2	617588.6	ARSENIC	3/24/2008		ug/L	8	
MW-4BR	528348.2	617588.6	ARSENIC	6/16/2008	1.1	ug/L	1	ND
MW-4BR	528348.2	617588.6	ARSENIC	9/15/2008		ug/L	8	ND
MW-4BR	528348.2	617588.6	DINOSEB	10/19/2005		ug/L	0.27	ND
MW-4BR	528348.2	617588.6	DINOSEB	12/18/2006		ug/L	0.5	ND
MW-4BR	528348.2	617588.6	DINOSEB	7/25/2007		ug/L	0.5	ND
MW-4BR	528348.2	617588.6	DINOSEB	12/18/2007		ug/L	0.5	ND
MW-4BR	528348.2	617588.6	DINOSEB	3/24/2008		ug/L	0.5	ND
MW-4BR	528348.2	617588.6	TRICHLOROETHYLENE (TCE)	10/19/2005		ug/L	1	ND
MW-4BR	528348.2	617588.6	TRICHLOROETHYLENE (TCE)	12/18/2006		ug/L	1	ND
MW-4BR	528348.2	617588.6	TRICHLOROETHYLENE (TCE)	7/25/2007		ug/L	1	ND
MW-4BR	528348.2	617588.6	TRICHLOROETHYLENE (TCE)	12/18/2007		ug/L	0.5	ND
MW-4BR	528348.2	617588.6	TRICHLOROETHYLENE (TCE)	3/24/2008		ug/L	0.5	ND
MW-4BR	528348.2	617588.6	TRICHLOROETHYLENE (TCE)	6/16/2008		ug/L	0.5	ND
MW-4BR	528348.2	617588.6	TRICHLOROETHYLENE (TCE)	9/15/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-4S	528341.8	617603.2	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	10/19/2005		ug/L	0.01	ND
MW-4S	528341.8	617603.2	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/18/2006		ug/L	0.05	ND
MW-4S	528341.8	617603.2	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/25/2007		ug/L	0.05	ND
MW-4S	528341.8	617603.2	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/18/2007		ug/L	0.05	ND
MW-4S	528341.8	617603.2	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/24/2008		ug/L	0.0024	ND
MW-4S	528341.8	617603.2	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/16/2008		ug/L	0.047	ND
MW-4S	528341.8	617603.2	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/15/2008		ug/L	0.0025	ND
MW-4S	528341.8	617603.2	ARSENIC	10/19/2005		ug/L	1	ND
MW-4S	528341.8	617603.2	ARSÉNIC	12/18/2006		ug/L	1.6	ND
MW-4S	528341.8	617603.2	ARSÉNIC	7/25/2007		ug/L	10	ND
MW-4S	528341.8	617603.2	ARSENIC	12/18/2007	0.69	ug/L	1.6	
MW-4S	528341.8	617603.2	ARSENIC	3/24/2008		ug/L	8	ND
MW-4S	528341.8	617603.2	ARSENIC	6/16/2008		ug/L	1	ND
MW-4S	528341.8	617603.2	ARSENIC	9/15/2008		ug/L	8	ND
MW-4S	528341.8	617603.2	DINOSEB	10/19/2005		ug/L	0.27	ND
MW-4S	528341.8	617603.2	DINOSEB	12/18/2006		ug/L	0.5	ND
MW-4S	528341.8	617603.2	DINOSEB	7/25/2007		ug/L	1	ND
MW-4S	528341.8	617603.2	DINOSEB	12/18/2007		ug/L	0.5	ND
MW-4S	528341.8	617603.2	DINOSEB	3/24/2008		ug/L	0.5	ND
MW-4S	528341.8	617603.2	TRICHLOROETHYLENE (TCE)	10/19/2005		ug/L	0.5	ND
MW-4S	528341.8	617603.2	TRICHLOROETHYLENE (TCE)	12/18/2006		ug/L	1	ND
MW-4S	528341.8	617603.2	TRICHLOROETHYLENE (TCE)	7/25/2007		ug/L	1	ND
MW-4S	528341.8	617603.2	TRICHLOROETHYLENE (TCE)	12/18/2007		ug/L	0.5	ND
MW-4S	528341.8	617603.2	TRICHLOROETHYLENE (TCE)	3/24/2008		ug/L	0.5	ND
MW-4S	528341.8	617603.2	TRICHLOROETHYLENE (TCE)	6/16/2008		ug/L	0.5	ND
MW-4S	528341.8	617603.2	TRICHLOROETHYLENE (TCE)	9/15/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-5BR	529113.9	617340.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	8/28/2007	1.7	ug/L	0.05	
MW-5BR	529113.9	617340.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2007	0.93	ug/L	0.05	
MW-5BR	529113.9	617340.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/26/2008	0.95	ug/L	0.0025	
MW-5BR	529113.9	617340.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/17/2008	0.78	ug/L	0.0048	
MW-5BR	529113.9	617340.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/16/2008	0.76	ug/L	0.0024	
MW-5BR	529113.9	617340.0	ARSENIC	8/28/2007	263	ug/L	1.3	
MW-5BR	529113.9	617340.0	ARSENIC	12/19/2007	247	ug/L	1.6	
MW-5BR	529113.9	617340.0	ARSENIC	3/26/2008	240	ug/L	8	
MW-5BR	529113.9	617340.0	ARSENIC	6/17/2008	210	ug/L	1	
MW-5BR	529113.9	617340.0	ARSENIC	9/16/2008	250	ug/L	8	
MW-5BR	529113.9	617340.0	DINOSEB	8/28/2007		ug/L	0.5	ND
MW-5BR	529113.9	617340.0	DINOSEB	12/19/2007		ug/L	0.5	ND
MW-5BR	529113.9	617340.0	DINOSEB	3/26/2008		ug/L	0.5	ND
MW-5BR	529113.9	617340.0	DINOSEB	6/17/2008		ug/L	0.9	ND
MW-5BR	529113.9	617340.0	TRICHLOROETHYLENE (TCE)	8/28/2007		ug/L	0.5	ND
MW-5BR	529113.9	617340.0	TRICHLOROETHYLENE (TCE)	12/19/2007		ug/L	0.5	ND
MW-5BR	529113.9	617340.0	TRICHLOROETHYLENE (TCE)	3/26/2008		ug/L	0.5	ND
MW-5BR	529113.9	617340.0	TRICHLOROETHYLENE (TCE)	6/17/2008		ug/L	0.5	ND
MW-5BR	529113.9	617340.0	TRICHLOROETHYLENE (TCE)	9/16/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-6BR	529064.2	617054.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	8/28/2007	0.16	ug/L	0.05	
MW-6BR	529064.2	617054.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2007	0.13	ug/L	0.05	
MW-6BR	529064.2	617054.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/26/2008	0.069	ug/L	0.0025	
MW-6BR	529064.2	617054.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/17/2008	0.056	ug/L	0.0048	
MW-6BR	529064.2	617054.4	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/16/2008	0.096	ug/L	0.0024	
MW-6BR	529064.2	617054.4	ARSENIC	8/28/2007		ug/L	1.3	ND
MW-6BR	529064.2	617054.4	ARSENIC	12/19/2007		ug/L	1.9	ND
MW-6BR	529064.2	617054.4	ARSENIC	3/26/2008		ug/L	8	ND
MW-6BR	529064.2	617054.4	ARSENIC	6/17/2008		ug/L	1	ND
MW-6BR	529064.2	617054.4	ARSENIC	9/16/2008		ug/L	8	ND
MW-6BR	529064.2	617054.4	DINOSEB	8/28/2007		ug/L	0.5	ND
MW-6BR	529064.2	617054.4	DINOSEB	12/19/2007		ug/L	0.5	ND
MW-6BR	529064.2	617054.4	DINOSEB	3/26/2008		ug/L	0.5	ND
MW-6BR	529064.2	617054.4	DINOSEB	6/17/2008		ug/L	0.92	ND
MW-6BR	529064.2	617054.4	TRICHLOROETHYLENE (TCE)	8/28/2007		ug/L	1	
MW-6BR	529064.2	617054.4	TRICHLOROETHYLENE (TCE)	12/19/2007	0.95	ug/L	0.5	
MW-6BR	529064.2	617054.4	TRICHLOROETHYLENE (TCE)	3/26/2008	0.66	ug/L	0.5	
MW-6BR	529064.2	617054.4	TRICHLOROETHYLENE (TCE)	6/17/2008	0.79	ug/L	0.5	
MW-6BR	529064.2	617054.4	TRICHLOROETHYLENE (TCE)	9/16/2008	1.1	ug/L	0.5	

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-7BR	529631.5	616812.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	8/28/2007		ug/L	0.05	ND
MW-7BR	529631.5	616812.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2007		ug/L	0.05	ND
MW-7BR	529631.5	616812.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/26/2008		ug/L	0.0093	ND
MW-7BR	529631.5	616812.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/17/2008		ug/L	0.05	ND
MW-7BR	529631.5	616812.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/16/2008		ug/L	0.0024	ND
MW-7BR	529631.5	616812.9	ARSENIC	8/28/2007		ug/L	1.3	ND
MW-7BR	529631.5	616812.9	ARSENIC	12/19/2007	1.7	ug/L	1.9	
MW-7BR	529631.5	616812.9	ARSENIC	3/26/2008		ug/L	8	ND
MW-7BR	529631.5	616812.9	ARSENIC	6/17/2008		ug/L	1	ND
MW-7BR	529631.5	616812.9	ARSENIC	9/16/2008		ug/L	8	ND
MW-7BR	529631.5	616812.9	DINOSEB	8/28/2007		ug/L	0.5	ND
MW-7BR	529631.5	616812.9	DINOSEB	12/19/2007		ug/L	0.5	ND
MW-7BR	529631.5	616812.9	DINOSEB	3/26/2008		ug/L	0.5	ND
MW-7BR	529631.5	616812.9	DINOSEB	6/17/2008		ug/L	0.97	ND
MW-7BR	529631.5	616812.9	TRICHLOROETHYLENE (TCE)	8/28/2007	5.9	ug/L	1	
MW-7BR	529631.5	616812.9	TRICHLOROETHYLÉNE (TCE)	12/19/2007	4.5	ug/L	0.5	
MW-7BR	529631.5	616812.9	TRICHLOROETHYLENE (TCE)	3/26/2008	2.6	ug/L	0.5	
MW-7BR	529631.5	616812.9	TRICHLOROETHYLENE (TCE)	6/17/2008	5.2	ug/L	0.5	
MW-7BR	529631.5	616812.9	TRICHLOROETHYLENE (TCE)	9/16/2008	2.7	ug/L	0.5	

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
MW-8BR	530010.9	616453.3	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	8/28/2007		ug/L	0.05	ND
MW-8BR	530010.9	616453.3	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/20/2007		ug/L	0.05	ND
MW-8BR	530010.9	616453.3	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	3/26/2008		ug/L	0.0025	ND
MW-8BR	530010.9	616453.3	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	6/18/2008		ug/L	0.05	ND
MW-8BR	530010.9	616453.3	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	9/17/2008		ug/L	0.0024	ND
MW-8BR	530010.9	616453.3	ARSENIC	8/28/2007		ug/L	1.3	ND
MW-8BR	530010.9	616453.3	ARSENIC	12/20/2007	2.7	ug/L	1.9	
MW-8BR	530010.9	616453.3	ARSENIC	3/26/2008		ug/L	8	ND
MW-8BR	530010.9	616453.3	ARSENIC	6/18/2008	1.1	ug/L	1	
MW-8BR	530010.9	616453.3	ARSENIC	9/17/2008		ug/L	8	ND
MW-8BR	530010.9	616453.3	DINOSEB	8/28/2007		ug/L	0.5	ND
MW-8BR	530010.9	616453.3	DINOSEB	12/20/2007		ug/L	0.5	ND
MW-8BR	530010.9	616453.3	DINOSEB	3/26/2008		ug/L	0.5	ND
MW-8BR	530010.9	616453.3	DINOSEB	6/18/2008		ug/L	0.99	ND
MW-8BR	530010.9	616453.3	TRICHLOROETHYLENE (TCE)	8/28/2007	84	ug/L	1	
MW-8BR	530010.9	616453.3	TRICHLOROETHYLENE (TCE)	12/20/2007	39	ug/L	0.5	
MW-8BR	530010.9	616453.3	TRICHLOROETHYLENE (TCE)	3/26/2008	25	ug/L	0.5	
MW-8BR	530010.9	616453.3	TRICHLOROETHYLENE (TCE)	6/18/2008	40	ug/L	0.5	
MW-8BR	530010.9	616453.3	TRICHLOROETHYLENE (TCE)	9/17/2008	39	ug/L	0.5	

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NUS-2D	528866.2	616745.8	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/26/2003		ug/L	0.05	ND
NUS-2D	528866.2	616745.8	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	10/19/2005		ug/L	0.01	ND
NUS-2D	528866.2	616745.8	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/20/2006		ug/L	0.05	ND
NUS-2D	528866.2	616745.8	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/25/2007		ug/L	0.05	ND
NUS-2D	528866.2	616745.8	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2007		ug/L	0.05	ND
NUS-2D	528866.2	616745.8	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/24/2008		ug/L	0.0024	ND
NUS-2D	528866.2	616745.8	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/16/2008		ug/L	0.047	ND
NUS-2D	528866.2	616745.8	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/15/2008		ug/L	0.0024	ND
NUS-2D	528866.2	616745.8	ARSENIC	6/26/2003		ug/L	3.4	ND
NUS-2D	528866.2	616745.8	ARSENIC	10/19/2005	1.7	ug/L	1	
NUS-2D	528866.2	616745.8	ARSENIC	12/20/2006		ug/L	1.6	ND
NUS-2D	528866.2	616745.8	ARSENIC	7/25/2007		ug/L	10	ND
NUS-2D	528866.2	616745.8	ARSENIC	12/19/2007	2.6	ug/L	1.9	
NUS-2D	528866.2	616745.8	ARSENIC	3/24/2008		ug/L	8	ND
NUS-2D	528866.2	616745.8	ARSENIC	6/16/2008	1.5	ug/L	1	
NUS-2D	528866.2	616745.8	ARSENIC	9/15/2008		ug/L	8	ND
NUS-2D	528866.2	616745.8	DINOSEB	6/26/2003		ug/L	0.5	ND
NUS-2D	528866.2	616745.8	ÐINOSÉB	10/19/2005		ug/L	0.28	ND
NUS-2D	528866.2	616745.8	DINOSEB	12/20/2006		ug/L	0.5	ND
NUS-2D	528866.2	616745.8	DINOSEB	7/25/2007		ug/L	0.5	ND
NUS-2D	528866.2	616745.8	DINOSEB	12/19/2007		ug/L	0.5	ND
NUS-2D	528866.2	616745.8	DINOSEB	3/24/2008		ug/L	0.5	ND
NUS-2D	528866.2	616745.8	TRICHLOROETHYLENE (TCE)	10/19/2005		ug/L	0.5	ND
NUS-2D	528866.2	616745.8	TRICHLOROETHYLENE (TCE)	12/20/2006		ug/L	1	ND
NUS-2D	528866.2	616745.8	TRICHLOROETHYLENE (TCE)	7/25/2007		ug/L	1	ND
NUS-2D	528866.2	616745.8	TRICHLOROETHYLENE (TCE)	12/19/2007	0.6	ug/L	0.5	
NUS-2D	528866.2	616745.8	TRICHLOROETHYLENE (TCE)	3/24/2008		ug/L	0.5	ND
NUS-2D	528866.2	616745.8	TRICHLOROETHYLENE (TCE)	6/16/2008		ug/L	0.5	ND
NUS-2D	528866.2	616745.8	TRICHLOROETHYLENE (TCE)	9/15/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NUS-3D	528591.5	616683.5	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	10/18/2005		ug/L	0.01	ND
NUS-3D	528591.5	616683.5	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/20/2006		ug/L	0.05	ND
NUS-3D	528591.5	616683.5	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	7/25/2007		ug/L	0.05	ND
NUS-3D	528591.5	616683.5	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	12/19/2007	0.0072	ug/L	0.05	
NUS-3D	528591.5	616683.5	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	3/24/2008		ug/L	0.0024	ND
NUS-3D	528591.5	616683.5	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	6/16/2008		ug/L	0.047	ND
NUS-3D	528591.5	616683.5	.PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	9/15/2008		ug/L	0.0024	ND
NUS-3D	528591.5	616683.5	ARSENIC	10/18/2005	1.8	ug/L	1	
NUS-3D	528591.5	616683.5	ARSENIC	12/20/2006		ug/L	1.6	ND
NUS-3D	528591.5	616683.5	ARSENIC	7/25/2007		ug/L	0.8	ND
NUS-3D	528591.5	616683.5	ARSENIC	12/19/2007	1.4	ug/L	1	
NUS-3D	528591.5	616683.5	ARSENIC	3/24/2008		ug/L	8	ND
NUS-3D	528591.5	616683.5	ARSENIC	6/16/2008		ug/L	1	ND
NUS-3D	528591.5	616683.5	ARSENIC	9/15/2008		ug/L	8	ND
NUS-3D	528591.5	616683.5	DINOSEB	10/18/2005		ug/L	0.3	ND
NUS-3D	528591.5	616683.5	DINOSEB	12/20/2006		ug/L	0.5	ND
NUS-3D	528591.5	616683.5	DINOSEB	7/25/2007		ug/L	0.5	ND
NUS-3D	528591.5	616683.5	DINOSEB	12/19/2007		ug/L	0.5	ND
NUS-3D	528591.5	616683.5	DINOSEB	3/24/2008		ug/L	0.5	ND
NUS-3D	528591.5	616683.5	TRICHLOROETHYLENE (TCE)	10/18/2005		ug/L	0.5	ND
NUS-3D	528591.5	616683.5	TRICHLOROETHYLENE (TCE)	12/20/2006		ug/L	1	ND
NUS-3D	528591.5	616683.5	TRICHLOROETHYLENE (TCE)	7/25/2007		ug/L	1	ND
NUS-3D	528591.5	616683.5	TRICHLOROETHYLENE (TCE)	12/19/2007		ug/L	0.5	ND
NUS-3D	528591.5	616683.5	TRICHLOROETHYLENE (TCE)	3/24/2008		ug/L	0.5	ND
NUS-3D	528591.5	616683.5	TRICHLOROETHYLENE (TCE)	6/16/2008		ug/L	0.5	ND
NUS-3D	528591.5	616683.5	TRICHLOROETHYLENE (TCE)	9/15/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NUS-3S	528598.9	616681.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	10/18/2005		ug/L	0.01	ND
NUS-3S	528598.9	616681.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/20/2006		ug/L	0.05	ND
NUS-3S	528598.9	616681.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/25/2007		ug/L	0.05	ND
NUS-3S	528598.9	616681.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2007		ug/L	0.05	ND
NUS-3S	528598.9	616681.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/24/2008		ug/L	0.0024	ND
NUS-3S	528598.9	616681.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/16/2008		ug/L	0.05	ND
NUS-3S	528598.9	616681.0	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/15/2008		ug/L	0.0024	ND
NUS-3S	528598.9	616681.0	ARSENIC	10/18/2005		ug/L	1	ND
NUS-3S	528598.9	616681.0	ARSENIC	12/20/2006		ug/L	1.6	ND
NUS-3S	528598.9	616681.0	ARSENIC	7/25/2007		ug/L	0.8	ND
NUS-3S	528598.9	616681.0	ARSENIC	12/19/2007	0.37	ug/L	1	ND
NUS-3S	528598.9	616681.0	ARSENIC	3/24/2008		ug/L	8	ND
NUS-3S	528598.9	616681.0	ARSENIC	6/16/2008		ug/L	1	ND
NUS-3S	528598.9	616681.0	ARSENIC	9/15/2008		ug/L	8	ND
NUS-3S	528598.9	616681.0	DINOSEB	10/18/2005		ug/L	0.27	ND
NUS-3S	528598.9	616681.0	DINOSEB	12/20/2006		ug/L	0.5	ND
NUS-3S	528598.9	616681.0	DINOSEB	7/25/2007		ug/L	0.5	ND
NUS-3S	528598.9	616681.0	DINOSEB	12/19/2007		ug/L	0.5	ND
NUS-3S	528598.9	616681.0	DINOSEB	3/24/2008		ug/L	0.5	ND
NUS-3S	528598.9	616681.0	TRICHLOROETHYLENE (TCE)	10/18/2005		ug/L	0.5	ND
NUS-3S	528598.9	616681.0	TRICHLOROETHYLENE (TCE)	12/20/2006		ug/L	1	ND
NUS-3S	528598.9	616681.0	TRICHLOROETHYLENE (TCE)	7/25/2007		ug/L	1	ND
NUS-3S	528598.9	616681.0	TRICHLOROETHYLENE (TCE)	12/19/2007		ug/L	0.5	ND
NUS-3S	528598.9	616681.0	TRICHLOROETHYLENE (TCE)	3/24/2008		ug/L	0.5	ND
NUS-3S	528598.9	616681.0	TRICHLOROETHYLENE (TCE)	6/16/2008		ug/L	0.5	ND
NUS-3S	528598.9	616681.0	TRICHLOROETHYLENE (TCE)	9/15/2008		ug/L	0.5	ND

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
QD	529370.6	616751.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/3/2003	0.09	ug/L	0.05	ND
QD	529370.6	616751.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/21/2006		ug/L	0.05	ND
QD	529370.6	616751.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/26/2007	0.057	ug/L	0.05	
QD	529370.6	616751.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/20/2007	0.047	ug/L	0.05	
QD	529370.6	616751.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/25/2008	0.038	ug/L	0.0025	
QD	529370.6	616751.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/18/2008	0.031	ug/L	0.05	
QD	529370.6	616751.9	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/17/2008	0.052	ug/L	0.0024	
QD	529370.6	616751.9	ARSENIC	7/3/2003		ug/L	3.4	ND
QD	529370.6	616751.9	ARSENIC	12/21/2006		ug/L	1.6	ND
QD	529370.6	616751.9	ARSENIC	7/26/2007		ug/L	10	ND
QD	529370.6	616751.9	ARSENIC	12/20/2007	0.55	ug/L	1	
QD	529370.6	616751.9	ARSENIC	3/25/2008		ug/L	8	ND
QD	529370.6	616751.9	ARSENIC	6/18/2008		ug/L	1	ND
QD	529370.6	616751.9	ARSENIC	9/17/2008		ug/L	8	ND
QD	529370.6	616751.9	DINOSEB	7/3/2003	21	ug/L	1	
QD	529370.6	616751.9	DINOSEB	12/21/2006	7.6	ug/L	0.5	
QD	529370.6	616751.9	DINOSEB	7/26/2007	6.9	ug/L	0.5	
QD	529370.6	616751.9	DINOSEB	12/20/2007	4.7	ug/L	0.5	
QD	529370.6	616751.9	DINOSEB	3/25/2008	3	ug/L	0.5	
QD	529370.6	616751.9	DINOSEB	6/18/2008	7.1	ug/L	0.5	
QD	529370.6	616751.9	DINOSEB	9/17/2008	8.5	ug/L	0.5	
QD	529370.6	616751.9	TRICHLOROETHYLENE (TCE)	12/21/2006	1.8	ug/L	1	
QD	529370.6	616751.9	TRICHLOROETHYLENE (TCE)	7/26/2007	2.1	ug/L	1	
QD	529370.6	616751.9	TRICHLOROETHYLENE (TCE)	12/20/2007	1.9	ug/L	0.5	
QD	529370.6	616751.9	TRICHLOROETHYLENE (TCE)	3/25/2008	1.8	ug/L	0.5	
QD	529370.6	616751.9	TRICHLOROETHYLÉNÉ (TCE)	6/18/2008	1.7	ug/L	0.5	
QD	529370.6	616751.9	TRICHLOROETHYLÉNÉ (TCE)	9/17/2008	3	ug/L	0.5	

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**Table 2 - Import Excel File**

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
UU	530363.2	616309.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/21/2006		ug/L	0.05	ND
UU	530363.2	616309.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	7/25/2007		ug/L	0.05	ND
UU	530363.2	616309.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	12/19/2007		ug/L	0.05	ND
UU	530363.2	616309.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	3/25/2008		ug/L	0.0025	ND
UU	530363.2	616309.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	6/17/2008		ug/L	0.048	ND
UU	530363.2	616309.5	PHA BHC (ALPHA HEXACHLOROCYCLOHEXAN)	9/16/2008		ug/L	0.0025	ND
UU	530363.2	616309.5	ARSENIC	7/8/2003	4.4	ug/L	3.4	
UU	530363.2	616309.5	ARSENIC	12/21/2006		ug/L	20	ND
UU	530363.2	616309.5	ARSENIC	7/25/2007	16.8	ug/L	10	
UU	530363.2	616309.5	ARSENIC	12/19/2007	1.1	ug/L	1	
UU	530363.2	616309.5	ARSENIC	3/25/2008		ug/L	8	ND
UU	530363.2	616309.5	ARSENIC	6/17/2008	2.5	ug/L	1	
UU	530363.2	616309.5	ARSENIC	9/16/2008	8.3	ug/L	8	
UU	530363.2	616309.5	DINOSEB	12/21/2006		ug/L	0.5	ND
UU	530363.2	616309.5	DINOSEB	7/25/2007		ug/L	0.5	ND
UU	530363.2	616309.5	DINOSEB	12/19/2007		ug/L	0.5	ND
UU	530363.2	616309.5	DINOSEB	3/25/2008		ug/L	0.5	ND
UU	530363.2	616309.5	DINOSEB	6/17/2008		ug/L	0.92	ND
UU	530363.2	616309.5	TRICHLOROETHYLENE (TCE)	7/8/2003	4.7	ug/L	1	
UU	530363.2	616309.5	TRICHLOROETHYLENE (TCE)	12/21/2006	3.5	ug/L	1	
UU	530363.2	616309.5	TRICHLOROETHYLENE (TCE)	7/25/2007	2.4	ug/L	1	
UU	530363.2	616309.5	TRICHLOROETHYLENE (TCE)	12/19/2007	2.4	ug/L	0.5	
UU	530363.2	616309.5	TRICHLOROETHYLENE (TCE)	3/25/2008	2.8	ug/L	0.5	
UU	530363.2	616309.5	TRICHLOROETHYLENE (TCE)	6/17/2008	1.5	ug/L	0.5	
UU	530363.2	616309.5	TRICHLOROETHYLENE (TCE)	9/16/2008	1.4	ug/L	0.5	

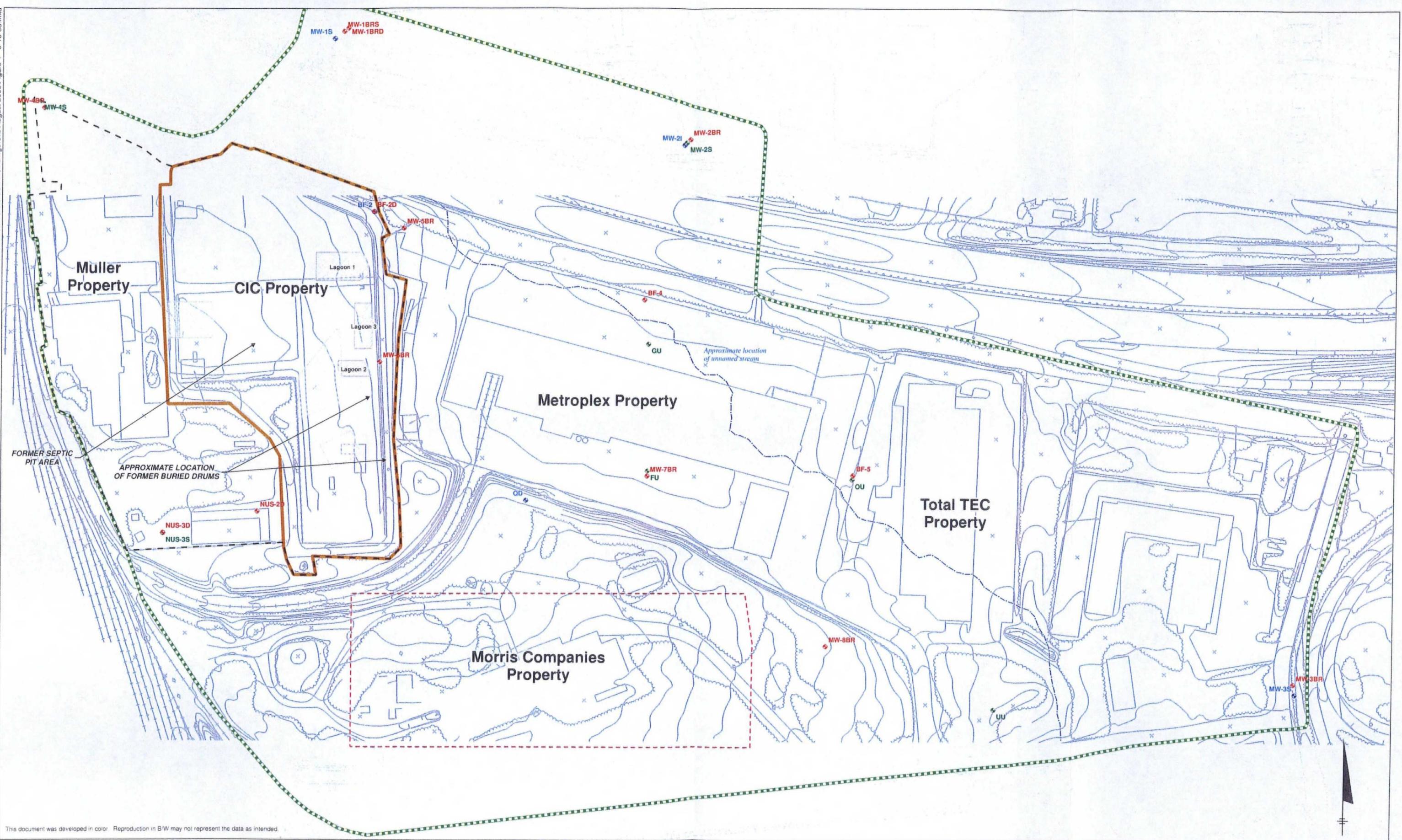
**Table 3 – Hydrogeological parameters**

**Chemical Insecticide Corporation**  
**Edison, NJ**

**Table 3 - Site Information and Hydrogeology**

<b>Site Information</b>			<b>Notes/assumptions</b>
<b>General</b>			
<b>Project:</b>	Chemical Insecticide Corporation		
<b>Location:</b>	Edison Twp.	New Jersey	
<b>Hydrogeology</b>			
<b>Hydraulic Conductivity (K):</b>	1.11 ft/day or 0.0004 cm/sec	(source: Phase IV RI, Foster Wheeler, July 2000)	
<b>Porosity:</b>	~29-40%	3 samples soil samples were performed as part of the Phase IV RI Activities (Foster Wheeler, July 2000). Results ranged from 29% to 40%. Assumed an average of 35% for MAROS program	
<b>Horizontal gradient</b>	0.02-0.04 feet/feet	(source: Additional Ground water Investigation Report, O'Brien & Gere, September 2008 )	
<b>Ground Water Seepage Velocity (ft/yr):</b>	35	$q_s = v = \text{seepage velocity} [L/T] = -K \cdot i / q$ K = hydraulic conductivity [L/T] i = hydraulic gradient [L/L] q = porosity [L/L]	
<b>Current Plume Width</b>	600	(source : <a href="http://www.epa.gov/athens/learn2model/part-two/onsite/seepage.htm">http://www.epa.gov/athens/learn2model/part-two/onsite/seepage.htm</a> )	
<b>Current Plume Length</b>	800	Estimated using Aerial Extent Figures 8 and 9 from AGI (Distance of BF-2 to FU)	
<b>Maximum Plume Length</b>	1500	Estimated using Aerial Extent Figures 8 and 9 from AGI (Distance from BF-2 to QD)	
<b>Number of Tail Wells</b>	16	Estimated based on distance from BF-2 to UU MW-1BRS, MW-1BRD, MW-2BR, MW-2I, MW-2S, MW-3S, MW-3BR, BF-4, BF-5, FU, GU, QD, OU, MW-	
<b>Number of Source Wells</b>	9	7BR, MW-8BR, UU NUS-3D, NUS-3S, NUS-2D, MW-6BR, BF-2D, BF-2, MW-5BR, MW-4BR, MW-4S	
<b>Source Information</b>			
<b>Free-Phase NAPL present?</b>	No	NAPL was never a constituent of concern	
<b>Current Source Treatment</b>	Excavation (OU2)	OUT2 Remedy, natural attenuation	
<b>Distance from Source to Nearest</b>			
<b>Down-gradient receptor</b>	100	Source is assumed to be the CIC property. Estimated based on the distance from eastern edge of CIC	
<b>Down-gradient property</b>	100	property to Metroplex building Metroplex Building	
<b>Distance from Edge of Tail to Nearest</b>			
<b>Down-gradient receptor</b>	200	Tail assumed to be around the area of MW-8BR; Estimated based on the distance from area of MW-	
<b>Down-gradient property</b>	200	8BR to Total Tec Total Tec	

**Figure – Site Plan**



CHEMICAL INSECTICIDE CORPORATION  
EDISON TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY  
OPERABLE UNIT 4 (OU4) - GROUNDWATER

0 45 90 180 270 360 Feet

## SITE PLAN

FILE NO.  
13003\39260  
DATE  
September 2008

O'BRIEN & O'BRIE  
ENGINEERS, INC.

FIGURE 1

## **Attachment A – Statistical Analysis**

# MAROS Site Results

Project: Chemical Insecticide Corporation

User Name: Lisa Tilton

Location: Edison Twp

State: New Jersey

## User Defined Site and Data Assumptions:

### Hydrogeology and Plume Information:

Groundwater Seepage Velocity: 35 ft/yr  
Current Plume Length: 800 ft  
Current Plume Width: 600 ft  
Number of Tail Wells: 15  
Number of Source Wells: 9

### Down-gradient Information:

Distance from Edge of Tail to Nearest:  
Down-gradient receptor: 200 ft  
Down-gradient property: 200 ft  
Distance from Source to Nearest:  
Down-gradient receptor: 100 ft  
Down-gradient property: 100 ft

### Source Information:

Source Treatment: Excavation

NAPL is not observed at this site.

### Data Consolidation Assumptions:

Time Period: 6/26/2003 to 9/15/2008  
Consolidation Period: No Time Consolidation  
Consolidation Type: Median  
Duplicate Consolidation: Average  
ND Values: 1/2 Detection Limit  
J Flag Values: Actual Value

### Plume Information Weighting Assumptions:

Consolidation Step 1. Weight Plume Information by Chemical  
Summary Weighting: Weighting Applied to All Chemicals Equally  
Consolidation Step 2. Weight Well Information by Chemical  
Well Weighting: No Weighting of Wells was Applied.  
Chemical Weighting: No Weighting of Chemicals was Applied.

Note: These assumptions were made when consolidating the historical monitoring data and lumping the Wells and COCs.

## 1. Compliance Monitoring/Remediation Optimization Results:

Preliminary Monitoring System Optimization Results: Based on site classification, source treatment and Monitoring System Category the following suggestions are made for site Sampling Frequency, Duration of Sampling before reassessment, and Well Density. These criteria take into consideration: Plume Stability, Type of Plume, and Groundwater Velocity.

COC	Tail Stability	Source Stability	Level of Effort	Sampling Duration	Sampling Frequency	Sampling Density
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	S	S	M	Remove treatment system if previously reducing concentration or PRG met.	No Recommendation	23
ARSENIC	NT	S	M	Remove treatment system if previously reducing concentration or PRG met.	No Recommendation	23
DINOSEB	NT	NT	E	Remove treatment system if previously reducing concentration or PRG met.	No Recommendation	23
TRICHLOROETHYLENE (TCE)	S	S	M	Remove treatment system if previously reducing concentration or PRG met.	No Recommendation	23

### Note:

Plume Status: (I) Increasing; (PI) Probably Increasing; (S) Stable; (NT) No Trend; (PD) Probably Decreasing; (D) Decreasing

Design Categories: (E) Extensive; (M) Moderate; (L) Limited (N/A) Not Applicable, Insufficient Data Available

## Level of Monitoring Effort Indicated by Analysis

Extensive

## 2. Spatial Moment Analysis Results:

Moment Type	Constituent	Coefficient of Variation	Mann-Kendall S Statistic	Confidence in Trend	Moment Trend
<b>Zeroth Moment: Mass</b>					
	ALPHA BHC (ALPHA HEXACHLOR)	1.03	0	45.2%	NT
	ARSENIC	0.75	0	45.2%	S
	DINOSEB	1.35	-2	54.8%	NT
	TRICHLOROETHYLENE (TCE)	0.63	14	94.6%	PI
<b>1st Moment: Distance to Source</b>					
	ALPHA BHC (ALPHA HEXACHLOR)	0.18	-1	50.0%	S
	ARSENIC	0.21	12	91.1%	PI
	DINOSEB	0.49	3	61.4%	NT
	TRICHLOROETHYLENE (TCE)	0.31	12	91.1%	PI
<b>2nd Moment: Sigma XX</b>					
	ALPHA BHC (ALPHA HEXACHLOR)	0.49	5	71.9%	NT
	ARSENIC	0.44	14	94.6%	PI
	DINOSEB	0.45	7	80.9%	NT
	TRICHLOROETHYLENE (TCE)	0.42	-8	80.1%	S
<b>2nd Moment: Sigma YY</b>					
	ALPHA BHC (ALPHA HEXACHLOR)	0.42	9	88.1%	NT
	ARSENIC	0.33	16	96.9%	I
	DINOSEB	0.54	9	88.1%	NT
	TRICHLOROETHYLENE (TCE)	0.27	-2	54.8%	S

Note: The following assumptions were applied for the calculation of the Zeroth Moment:

Porosity: 0.35      Saturated Thickness: Uniform: 100 ft

Mann-Kendall Trend test performed on all sample events for each constituent. Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events).

# MAROS COC Assessment

**Project:** Chemical Insecticide Corporation

**User Name:** Lisa Tilton

**Location:** Edison Twp

**State:** New Jersey

## Toxicity:

Contaminant of Concern	Representative Concentration (mg/L)	PRG (mg/L)	Percent Above PRG
TRICHLOROETHYLENE (TCE)	6.7E-02	1.0E-03	6642.0%
ARSENIC	1.2E-01	3.0E-03	3876.7%
ALPHA BHC (ALPHA HEXACHLOROCYCLO	7.3E-04	2.0E-05	3539.2%
DINOSEB	9.6E-03	7.0E-03	37.0%

Note: Top COCs by toxicity were determined by examining a representative concentration for each compound over the entire site. The compound representative concentrations are then compared with the chosen PRG for that compound, with the percentage excedence from the PRG determining the compound's toxicity. All compounds above exceed the PRG.

## Prevalence:

Contaminant of Concern	Class	Total Wells	Total Excedences	Percent Excedences	Total detects
TRICHLOROETHYLENE (TCE)	ORG	24	8	33.3%	14
ALPHA BHC (ALPHA HEXACHLOROCYCLOH	ORG	24	7	29.2%	8
ARSENIC	MET	24	6	25.0%	20
DINOSEB	ORG	24	2	8.3%	6

Note: Top COCs by prevalence were determined by examining a representative concentration for each well location at the site. The total excedences (values above the chosen PRGs) are compared to the total number of wells to determine the prevalence of the compound.

## Mobility:

Contaminant of Concern	Kd
TRICHLOROETHYLENE (TCE)	0.297
DINOSEB	4.71
ALPHA BHC (ALPHA HEXACHLOROCYCLO	18.1
ARSENIC	25

Note: Top COCs by mobility were determined by examining each detected compound in the dataset and comparing their mobilities (Koc's for organics, assume fcc = 0.001, and Kd's for metals).

## Contaminants of Concern (COC's)

ALPHA BHC (ALPHA HEXACHLOROCYCLO  
ARSENIC  
DINOSEB  
TRICHLOROETHYLENE (TCE)

# MAROS Plume Analysis Summary

**Project:** Chemical Insecticide Corporation

**User Name:** Lisa Tilton

**Location:** Edison Twp

**State:** New Jersey

**Time Period:** 6/26/2003 to 9/15/2008

**Consolidation Period:** No Time Consolidation

**Consolidation Type:** Median

**Duplicate Consolidation:** Average

**ND Values:** 1/2 Detection Limit

**J Flag Values:** Actual/Value

Constituent	Well	Source/Tail	Number of Samples	Number of Detects	Average (mg/L)	Median (mg/L)	All Samples "ND" ?	Mann-Kendall	Linear Regression	Modeling	Empirical
<b>ALPHA BHC (ALPHA HEXACHLOROCYCLOHE</b>											
MW-4BR	S	Tail	7	0	1.5E-05	2.4E-05	Yes	S	S	N/A	N/A
NUS-2D	S	Tail	8	0	1.6E-05	2.4E-05	Yes	S	S	N/A	N/A
NUS-3D	S	Tail	7	1	1.3E-05	7.2E-06	No	S	S	N/A	N/A
MW-5BR	S	Tail	5	5	1.0E-03	9.3E-04	No	D	D	N/A	N/A
MW-4S	S	Tail	7	0	1.5E-05	2.4E-05	Yes	S	S	N/A	N/A
NUS-3S	S	Tail	7	0	1.5E-05	2.5E-05	Yes	S	S	N/A	N/A
MW-6BR	S	Tail	5	5	1.0E-04	9.6E-05	No	S	PD	N/A	N/A
BF-2	S	Tail	7	7	1.0E-02	3.9E-03	No	D	D	N/A	N/A
BF-2D	S	Tail	7	7	4.7E-03	3.4E-03	No	S	S	N/A	N/A
MW-1BRD	T	Tail	7	0	1.7E-05	2.5E-05	Yes	S	S	N/A	N/A
MW-3BR	T	Tail	6	0	1.7E-05	2.5E-05	Yes	S	S	N/A	N/A
MW-8BR	T	Tail	5	0	1.5E-05	2.5E-05	Yes	S	S	N/A	N/A
MW-2S	T	Tail	7	0	1.5E-05	2.4E-05	Yes	S	S	N/A	N/A
MW-1BRS	T	Tail	7	0	1.5E-05	2.5E-05	Yes	S	S	N/A	N/A
FU	T	Tail	7	4	3.1E-05	3.2E-05	No	I	I	N/A	N/A
MW-2I	T	Tail	7	0	1.5E-05	2.5E-05	Yes	S	S	N/A	N/A
MW-3S	T	Tail	6	0	1.7E-05	2.5E-05	Yes	S	S	N/A	N/A
MW-7BR	T	Tail	5	0	1.6E-05	2.5E-05	Yes	S	S	N/A	N/A
BF-5	T	Tail	7	0	1.8E-05	2.4E-05	Yes	S	S	N/A	N/A
MW-2BR	T	Tail	7	0	1.5E-05	2.4E-05	Yes	S	S	N/A	N/A
GU	T	Tail	5	0	1.7E-05	2.4E-05	Yes	S	S	N/A	N/A
UU	T	Tail	6	0	1.7E-05	2.5E-05	Yes	PD	S	N/A	N/A

Project: Chemical Insecticide Corporation

User Name: Lisa Tilton

Location: Edison Twp

State: New Jersey

Constituent	Well	Source/ Tail	Number of Samples	Number of Dectcts	Average (mg/L)	Median (mg/L)	All Samples "ND" ?	Mann- Kendall	Linear Regression	Modeling	Empirical
<b>ALPHA.BHC (ALPHA HEXACHLOROCYCLOHE</b>											
QD	T	T	7	5	3.9E-05	3.8E-05	No	NT	PI	N/A	N/A
BF-4	T	T	6	2	1.2E-03	2.5E-05	No	D	D	N/A	N/A
<b>ARSENIC</b>											
MW-4BR	S	S	7	3	2.6E-03	2.4E-03	No	NT	NT	N/A	N/A
BF-2	S	S	7	7	2.6E+00	8.3E-01	No	PD	D	N/A	N/A
BF-2D	S	S	7	6	1.7E-02	1.4E-02	No	PD	S	N/A	N/A
MW-6BR	S	S	5	0	2.0E-03	9.5E-04	Yes	NT	NT	N/A	N/A
NUS-3S	S	S	7	1	1.5E-03	5.0E-04	No	NT	NT	N/A	N/A
MW-4S	S	S	7	1	2.2E-03	8.0E-04	No	NT	NT	N/A	N/A
MW-5BR	S	S	5	5	2.4E-01	2.5E-01	No	S	S	N/A	N/A
NUS-2D	S	S	8	3	2.7E-03	2.2E-03	No	NT	NT	N/A	N/A
NUS-3D	S	S	7	2	1.8E-03	1.4E-03	No	NT	NT	N/A	N/A
MW-3S	T	T	7	2	2.4E-03	1.7E-03	No	S	NT	N/A	N/A
MW-8BR	T	T	5	2	2.5E-03	2.7E-03	No	NT	NT	N/A	N/A
UU	T	T	7	5	6.7E-03	4.4E-03	No	S	S	N/A	N/A
MW-2I	T	T	7	3	2.1E-03	1.9E-03	No	NT	NT	N/A	N/A
MW-1BRS	T	T	8	0	1.6E-03	6.5E-04	Yes	NT	NT	N/A	N/A
BF-4	T	T	6	0	1.7E-03	6.5E-04	Yes	NT	PI	N/A	N/A
MW-2S	T	T	7	3	2.7E-03	2.1E-03	No	NT	NT	N/A	N/A
MW-1BRD	T	T	8	2	1.7E-03	1.8E-03	No	NT	S	N/A	N/A
QD	T	T	7	1	2.4E-03	1.7E-03	No	S	NT	N/A	N/A
MW-3BR	T	T	7	2	2.8E-03	3.5E-03	No	S	S	N/A	N/A
BF-5	T	T	7	0	1.7E-03	8.0E-04	Yes	NT	S	N/A	N/A
GU	T	T	6	2	3.0E-03	3.8E-03	No	NT	NT	N/A	N/A
MW-7BR	T	T	5	1	2.2E-03	1.7E-03	No	NT	NT	N/A	N/A
MW-2BR	T	T	8	5	3.1E-03	3.0E-03	No	I	I	N/A	N/A
FU	T	T	7	1	1.7E-03	8.0E-04	No	NT	S	N/A	N/A
<b>DINOSEB</b>											
MW-4S	S	S	6	0	2.8E-04	2.6E-04	Yes	NT	NT	N/A	N/A
MW-5BR	S	S	4	0	3.0E-04	2.5E-04	Yes	NT	NT	N/A	N/A
MW-6BR	S	S	4	0	3.0E-04	2.5E-04	Yes	NT	NT	N/A	N/A
NUS-3D	S	S	5	0	2.3E-04	2.5E-04	Yes	NT	I	N/A	N/A

Project: Chemical Insecticide Corporation

User Name: Lisa Tilton

Location: Edison Twp

State: New Jersey

Constituent	Well	Source/Tail	Number of Samples	Number of Detects	Average (mg/L)	Median (mg/L)	All Samples "ND" ?	Mann-Kendall	Linear Regression Modeling	Empirical
<b>DINOSEB</b>										
BF-2	S	S	6	0	2.8E-04	2.5E-04	Yes	NT	NT	N/A
NUS-3S	S	S	5	0	2.3E-04	2.5E-04	Yes	NT	I	N/A
BF-2D	S	S	6	1	4.3E-04	3.7E-04	No	PI	PI	N/A
MW-4BR	S	S	5	0	2.3E-04	2.5E-04	Yes	NT	I	N/A
NUS-2D	S	S	6	0	2.3E-04	2.5E-04	Yes	NT	NT	N/A
BF-5	T	T	4	1	2.1E-01	1.4E-04	No	NT	PI	N/A
GU	T	T	5	1	3.5E-04	2.5E-04	No	NT	PI	N/A
FU	T	T	6	6	3.2E-03	3.6E-03	No	NT	S	N/A
BF-4	T	T	5	0	2.9E-04	2.5E-04	Yes	NT	NT	N/A
MW-1BRS	T	T	5	1	2.5E-04	2.5E-04	No	S	D	N/A
MW-1BRD	T	T	4	0	2.5E-04	2.5E-04	Yes	S	S	N/A
MW-3BR	T	T	6	0	2.9E-04	2.5E-04	Yes	NT	NT	N/A
UU	T	T	5	0	2.9E-04	2.5E-04	Yes	NT	NT	N/A
MW-2I	T	T	5	0	2.3E-04	2.5E-04	Yes	NT	I	N/A
QD	T	T	7	7	8.4E-03	7.1E-03	No	S	D	N/A
MW-7BR	T	T	4	0	3.1E-04	2.5E-04	Yes	NT	NT	N/A
MW-2S	T	T	6	0	2.7E-04	2.5E-04	Yes	PI	I	N/A
MW-8BR	T	T	4	0	3.1E-04	2.5E-04	Yes	NT	NT	N/A
MW-3S	T	T	6	0	2.9E-04	2.5E-04	Yes	NT	NT	N/A
MW-2BR	T	T	5	0	2.3E-04	2.5E-04	Yes	NT	I	N/A
<b>TRICHLOROETHYLENE (TCE)</b>										
MW-6BR	S	S	4	4	8.8E-04	8.7E-04	No	NT	NT	N/A
NUS-2D	S	S	7	1	3.7E-04	2.5E-04	No	S	S	N/A
NUS-3D	S	S	7	0	3.2E-04	2.5E-04	Yes	S	S	N/A
MW-4S	S	S	7	0	3.2E-04	2.5E-04	Yes	S	S	N/A
NUS-3S	S	S	7	0	3.2E-04	2.5E-04	Yes	S	S	N/A
BF-2	S	S	7	7	3.1E-03	2.8E-03	No	PD	D	N/A
BF-2D	S	S	7	7	3.6E-03	3.1E-03	No	S	S	N/A
MW-4BR	S	S	7	0	3.6E-04	2.5E-04	Yes	PD	D	N/A
MW-5BR	S	S	5	0	2.5E-04	2.5E-04	Yes	S	S	N/A
MW-8BR	T	T	5	5	4.5E-02	3.9E-02	No	S	S	N/A
MW-1BRS	T	T	8	2	3.3E-04	2.5E-04	No	S	S	N/A
QD	T	T	6	6	2.1E-03	1.9E-03	No	S	NT	N/A

Project: Chemical Insecticide Corporation

User Name: Lisa Tilton

Location: Edison Twp

State: New Jersey

Constituent	Well	Source/ Tail	Number of Samples	Number of Detects	Average (mg/L)	Median (mg/L)	All Samples "ND" ?	Mann- Kendall	Linear Regression	Modeling	Empirical
<b>TRICHLOROETHYLENE (TCE)</b>											
MW-2BR	T	T	8	0	3.4E-04	2.5E-04	Yes	S	PD	N/A	N/A
MW-2I	T	T	7	0	3.2E-04	2.5E-04	Yes	S	S	N/A	N/A
MW-1BRD	T	T	8	0	3.4E-04	2.5E-04	Yes	S	PD	N/A	N/A
MW-2S	T	T	7	0	3.2E-04	2.5E-04	Yes	S	S	N/A	N/A
BF-5	T	T	6	6	1.6E+00	1.6E+00	No	S	S	N/A	N/A
UU	T	T	7	7	2.7E-03	2.4E-03	No	D	D	N/A	N/A
MW-3S	T	T	6	0	3.3E-04	2.5E-04	Yes	S	D	N/A	N/A
BF-4	T	T	6	1	1.0E-03	3.8E-04	No	NT	NT	N/A	N/A
MW-7BR	T	T	5	5	4.2E-03	4.5E-03	No	S	S	N/A	N/A
FU	T	T	6	1	3.1E-04	2.5E-04	No	S	S	N/A	N/A
MW-3BR	T	T	7	1	3.4E-04	2.5E-04	No	S	S	N/A	N/A
GU	T	T	6	1	6.1E-04	3.8E-04	No	NT	NT	N/A	N/A

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.

# MAROS Statistical Trend Analysis Summary

**Project:**

**User Name:**

**Location:**

**State:**

**Time Period:** to

**Consolidation Period:** Other

**Consolidation Type:** Maximum

**Duplicate Consolidation:** First

**ND Values:** Specified Detection Limit

**J Flag Values :** Fraction of Actual Value

Well	Source/ Tail	Number of Samples	Number of Detections	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann- Kendall Trend	Linear Regression Trend
<b>ALPHA BHC (ALPHA HEXACHLOROCYCLOHE</b>								
BF-2	S	7	7	1.0E-02	3.9E-03	No	D	D
BF-2D	S	7	7	4.7E-03	3.4E-03	No	S	S
BF-4	T	6	2	1.2E-03	2.5E-05	No	D	D
BF-5	T	7	0	1.8E-05	2.4E-05	Yes	S	S
FU	T	7	4	3.1E-05	3.2E-05	No	I	I
GU	T	5	0	1.7E-05	2.4E-05	Yes	S	S
MW-1BRD	T	7	0	1.7E-05	2.5E-05	Yes	S	S
MW-1BRS	T	7	0	1.5E-05	2.5E-05	Yes	S	S
MW-2BR	T	7	0	1.5E-05	2.4E-05	Yes	S	S
MW-2I	T	7	0	1.5E-05	2.5E-05	Yes	S	S
MW-2S	T	7	0	1.5E-05	2.4E-05	Yes	S	S
MW-3BR	T	6	0	1.7E-05	2.5E-05	Yes	S	S
MW-3S	T	6	0	1.7E-05	2.5E-05	Yes	S	S
MW-4BR	S	7	0	1.5E-05	2.4E-05	Yes	S	S
MW-4S	S	7	0	1.5E-05	2.4E-05	Yes	S	S
MW-5BR	S	5	5	1.0E-03	9.3E-04	No	D	D
MW-6BR	S	5	5	1.0E-04	9.6E-05	No	S	PD
MW-7BR	T	5	0	1.6E-05	2.5E-05	Yes	S	S
MW-8BR	T	5	0	1.5E-05	2.5E-05	Yes	S	S
NUS-2D	S	8	0	1.6E-05	2.4E-05	Yes	S	S
NUS-3D	S	7	1	1.3E-05	7.2E-06	No	S	S
NUS-3S	S	7	0	1.5E-05	2.5E-05	Yes	S	S
QD	T	7	5	3.9E-05	3.8E-05	No	NT	PI
UU	T	6	0	1.7E-05	2.5E-05	Yes	PD	S
<b>ARSENIC</b>								
BF-2	S	7	7	2.6E+00	8.3E-01	No	PD	D
BF-2D	S	7	6	1.7E-02	1.4E-02	No	PD	S
BF-4	T	6	0	1.7E-03	6.5E-04	Yes	NT	PI
BF-5	T	7	0	1.7E-03	8.0E-04	Yes	NT	S
FU	T	7	1	1.7E-03	8.0E-04	No	NT	S
GU	T	6	2	3.0E-03	3.8E-03	No	NT	NT
MW-1BRD	T	8	2	1.7E-03	1.8E-03	No	NT	S
MW-1BRS	T	8	0	1.6E-03	6.5E-04	Yes	NT	NT
MW-2BR	T	8	5	3.1E-03	3.0E-03	No	I	I

# MAROS Statistical Trend Analysis Summary

Well	Source/Tail	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND"?	Mann-Kendall Trend	Linear Regression Trend
<b>ARSENIC</b>								
MW-2I	T	7	3	2.1E-03	1.9E-03	No	NT	NT
MW-2S	T	7	3	2.7E-03	2.1E-03	No	NT	NT
MW-3BR	T	7	2	2.8E-03	3.5E-03	No	S	S
MW-3S	T	7	2	2.4E-03	1.7E-03	No	S	NT
MW-4BR	S	7	3	2.6E-03	2.4E-03	No	NT	NT
MW-4S	S	7	1	2.2E-03	8.0E-04	No	NT	NT
MW-5BR	S	5	5	2.4E-01	2.5E-01	No	S	S
MW-6BR	S	5	0	2.0E-03	9.5E-04	Yes	NT	NT
MW-7BR	T	5	1	2.2E-03	1.7E-03	No	NT	NT
MW-8BR	T	5	2	2.5E-03	2.7E-03	No	NT	NT
NUS-2D	S	8	3	2.7E-03	2.2E-03	No	NT	NT
NUS-3D	S	7	2	1.8E-03	1.4E-03	No	NT	NT
NUS-3S	S	7	1	1.5E-03	5.0E-04	No	NT	NT
QD	T	7	1	2.4E-03	1.7E-03	No	S	NT
UU	T	7	5	6.7E-03	4.4E-03	No	S	S
<b>DINOSEB</b>								
BF-2	S	6	0	2.8E-04	2.5E-04	Yes	NT	NT
BF-2D	S	6	1	4.3E-04	3.7E-04	No	PI	PI
BF-4	T	5	0	2.9E-04	2.5E-04	Yes	NT	NT
BF-5	T	4	1	2.1E-01	1.4E-04	No	NT	PI
FU	T	6	6	3.2E-03	3.6E-03	No	NT	S
GU	T	5	1	3.5E-04	2.5E-04	No	NT	PI
MW-1BRD	T	4	0	2.5E-04	2.5E-04	Yes	S	S
MW-1BRS	T	5	1	2.5E-04	2.5E-04	No	S	D
MW-2BR	T	5	0	2.3E-04	2.5E-04	Yes	NT	I
MW-2I	T	5	0	2.3E-04	2.5E-04	Yes	NT	I
MW-2S	T	6	0	2.7E-04	2.5E-04	Yes	PI	I
MW-3BR	T	6	0	2.9E-04	2.5E-04	Yes	NT	NT
MW-3S	T	6	0	2.9E-04	2.5E-04	Yes	NT	NT
MW-4BR	S	5	0	2.3E-04	2.5E-04	Yes	NT	I
MW-4S	S	5	0	2.8E-04	2.5E-04	Yes	NT	NT
MW-5BR	S	4	0	3.0E-04	2.5E-04	Yes	NT	NT
MW-6BR	S	4	0	3.0E-04	2.5E-04	Yes	NT	NT
MW-7BR	T	4	0	3.1E-04	2.5E-04	Yes	NT	NT
MW-8BR	T	4	0	3.1E-04	2.5E-04	Yes	NT	NT
NUS-2D	S	6	0	2.3E-04	2.5E-04	Yes	NT	NT
NUS-3D	S	5	0	2.3E-04	2.5E-04	Yes	NT	I
NUS-3S	S	5	0	2.3E-04	2.5E-04	Yes	NT	I
QD	T	7	7	8.4E-03	7.1E-03	No	S	D
UU	T	5	0	2.9E-04	2.5E-04	Yes	NT	NT
<b>TRICHLOROETHYLENE (TCE)</b>								
BF-2	S	7	7	3.1E-03	2.8E-03	No	PD	D
BF-2D	S	7	7	3.6E-03	3.1E-03	No	S	S
BF-4	T	6	1	1.0E-03	3.8E-04	No	NT	NT

# MAROS Statistical Trend Analysis Summary

Well	Source/Tall	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann-Kendall Trend	Linear Regression Trend
<b>TRICHLOROETHYLENE (TCE)</b>								
BF-5	T	6	6	1.6E+00	1.6E+00	No	S	S
FU	T	6	1	3.1E-04	2.5E-04	No	S	S
GU	T	6	1	6.1E-04	3.8E-04	No	NT	NT
MW-1BRD	T	8	0	3.4E-04	2.5E-04	Yes	S	PD
MW-1BRS	T	8	2	3.3E-04	2.5E-04	No	S	S
MW-2BR	T	8	0	3.4E-04	2.5E-04	Yes	S	PD
MW-2I	T	7	0	3.2E-04	2.5E-04	Yes	S	S
MW-2S	T	7	0	3.2E-04	2.5E-04	Yes	S	S
MW-3BR	T	7	1	3.4E-04	2.5E-04	No	S	S
MW-3S	T	6	0	3.3E-04	2.5E-04	Yes	S	D
MW-4BR	S	7	0	3.6E-04	2.5E-04	Yes	PD	D
MW-4S	S	7	0	3.2E-04	2.5E-04	Yes	S	S
MW-5BR	S	5	0	2.5E-04	2.5E-04	Yes	S	S
MW-6BR	S	4	4	8.8E-04	8.7E-04	No	NT	NT
MW-7BR	T	5	5	4.2E-03	4.5E-03	No	S	S
MW-8BR	T	5	5	4.5E-02	3.9E-02	No	S	S
NUS-2D	S	7	1	3.7E-04	2.5E-04	No	S	S
NUS-3D	S	7	0	3.2E-04	2.5E-04	Yes	S	S
NUS-3S	S	7	0	3.2E-04	2.5E-04	Yes	S	S
QD	T	6	6	2.1E-03	1.9E-03	No	S	NT
UU	T	7	7	2.7E-03	2.4E-03	No	D	D

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); No Detectable Concentration (NDC)

The Number of Samples and Number of Detects shown above are post-consolidation values.

# MAROS Mann-Kendall Statistics Summary

**Project:** Chemical Insecticide Corporation

**User Name:** Lisa Tilton

**Location:** Edison Twp

**State:** New Jersey

**Time Period:** 6/26/2003 to 9/15/2008

**Consolidation Period:** No Time Consolidation

**Consolidation Type:** Median

**Duplicate Consolidation:** Average

**ND Values:** 1/2 Detection Limit

**J Flag Values :** Actual Value

Well	Source/Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence In Trend	All Samples "ND" ?	Concentration Trend
<b>ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)</b>								
MW-4BR	S	7	0	0.79	-8	84.5%	Yes	S
NUS-2D	S	8	0	0.71	-11	88.7%	Yes	S
NUS-3D	S	7	1	0.90	-7	80.9%	No	S
MW-5BR	S	5	5	0.38	-8	95.8%	No	D
MW-4S	S	7	0	0.79	-6	76.4%	Yes	S
NUS-3S	S	7	0	0.79	-4	66.7%	Yes	S
MW-6BR	S	5	5	0.42	-6	88.3%	No	S
BF-2	S	7	7	1.61	-15	98.5%	No	D
BF-2D	S	7	7	0.47	-7	80.9%	No	S
MW-1BRD	T	7	0	0.63	-3	61.4%	Yes	S
MW-3BR	T	6	0	0.72	-7	86.4%	Yes	S
MW-8BR	T	5	0	0.84	-5	82.1%	Yes	S
MW-2S	T	7	0	0.79	-8	84.5%	Yes	S
MW-1BRS	T	7	0	0.79	-5	71.9%	Yes	S
FU	T	7	4	0.19	14	97.5%	No	-
MW-2I	T	7	0	0.79	-5	71.9%	Yes	S
MW-3S	T	6	0	0.72	-8	81.5%	Yes	S
MW-7BR	T	5	0	0.75	-5	82.1%	Yes	S
BF-5	T	7	0	0.64	-7	80.9%	Yes	S
MW-2BR	T	7	0	0.79	-8	84.5%	Yes	S
GU	T	5	0	0.59	-6	88.3%	Yes	S
UU	T	6	0	0.72	-9	93.2%	Yes	PD
QD	T	7	5	0.33	6	76.4%	No	NT
BF-4	T	6	2	1.55	-12	98.2%	No	D
<b>ARSENIC</b>								
MW-4BR	S	7	3	0.65	5	71.9%	No	NT
BF-2	S	7	7	1.75	-11	93.2%	No	PD
BF-2D	S	7	6	0.42	-11	93.2%	No	PD
MW-6BR	S	5	0	0.90	3	67.5%	Yes	NT
NUS-3S	S	7	1	1.13	5	71.9%	No	NT
MW-4S	S	7	1	0.91	3	61.4%	No	NT
MW-5BR	S	5	5	0.08	-4	75.8%	No	S
NUS-2D	S	8	3	0.56	7	76.4%	No	NT
NUS-3D	S	7	2	0.84	4	66.7%	No	NT
MW-3S	T	7	2	0.73	0	43.7%	No	S
MW-8BR	T	5	2	0.63	5	82.1%	No	NT
UU	T	7	5	0.81	-3	61.4%	No	S

Project: Chemical Insecticide Corporation

User Name: Lisa Tilton

Location: Edison Twp

State: New Jersey

Well	Source/ Tail	Number of Samples	Number of Dectets	Coefficient of Variation	Mann-Kendall Statistic	Confidence In Trend	All Samples "ND" ?	Concentration Trend
<b>ARSENIC</b>								
MW-2I	T	7	3	0.67	8	84.5%	No	NT
MW-1BRS	T	8	0	1.01	4	64.0%	Yes	NT
BF-4	T	6	0	1.05	7	86.4%	Yes	NT
MW-2S	T	7	3	0.61	4	66.7%	No	NT
MW-1BRD	T	8	2	0.70	6	72.6%	No	NT
QD	T	7	1	0.81	-2	55.7%	No	S
MW-3BR	T	7	2	0.63	0	43.7%	No	S
BF-5	T	7	0	0.96	3	61.4%	Yes	NT
GU	T	6	2	0.60	2	57.0%	No	NT
MW-7BR	T	5	1	0.80	3	67.5%	No	NT
MW-2BR	T	8	5	0.25	16	96.9%	No	I
FU	T	7	1	0.97	4	66.7%	No	NT
<b>DINOSEB</b>								
MW-4S	S	5	0	0.48	3	67.5%	Yes	NT
MW-5BR	S	4	0	0.33	3	72.9%	Yes	NT
MW-6BR	S	4	0	0.35	3	72.9%	Yes	NT
NUS-3D	S	5	0	0.19	4	75.8%	Yes	NT
BF-2	S	6	0	0.29	5	76.5%	Yes	NT
NUS-3S	S	5	0	0.23	4	75.8%	Yes	NT
BF-2D	S	6	1	0.58	9	93.2%	No	PI
MW-4BR	S	5	0	0.23	4	75.8%	Yes	NT
NUS-2D	S	6	0	0.19	3	64.0%	Yes	NT
BF-5	T	4	1	2.00	5	89.6%	No	NT
GU	T	5	1	0.42	5	82.1%	No	NT
FU	T	6	6	0.34	1	50.0%	No	NT
BF-4	T	5	0	0.31	4	75.8%	Yes	NT
MW-1BRS	T	5	1	0.02	-4	75.8%	No	S
MW-1BRD	T	4	0	0.00	0	37.5%	Yes	S
MW-3BR	T	6	0	0.32	1	50.0%	Yes	NT
UU	T	5	0	0.32	4	75.8%	Yes	NT
MW-2I	T	5	0	0.23	4	75.8%	Yes	NT
QD	T	7	7	0.70	-5	71.9%	No	S
MW-7BR	T	4	0	0.38	3	72.9%	Yes	NT
MW-2S	T	6	0	0.42	9	93.2%	Yes	PI
MW-8BR	T	4	0	0.39	3	72.9%	Yes	NT
MW-3S	T	6	0	0.32	1	50.0%	Yes	NT
MW-2BR	T	5	0	0.23	4	75.8%	Yes	NT
<b>TRICHLOROETHYLENE (TCE)</b>								
MW-6BR	S	4	4	0.22	2	62.5%	No	NT
NUS-2D	S	7	1	0.42	-4	66.7%	No	S
NUS-3D	S	7	0	0.38	-6	76.4%	Yes	S
MW-4S	S	7	0	0.38	-6	76.4%	Yes	S
NUS-3S	S	7	0	0.38	-6	76.4%	Yes	S
BF-2	S	7	7	0.23	-12	94.9%	No	PD
BF-2D	S	7	7	0.69	-5	71.9%	No	S
MW-4BR	S	7	0	0.37	-12	94.9%	Yes	PD
MW-5BR	S	5	0	0.00	0	40.8%	Yes	S
MW-8BR	T	5	5	0.49	-3	67.5%	No	S

Project: Chemical Insecticide Corporation

User Name: Lisa Tilton

Location: Edison Twp

State: New Jersey

Well	Source/ Tail	Number of Samples	Number of Dectcts	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
TRICHLOROETHYLENE (TCE)								
MW-1BRS	T	8	2	0.45	-4	64.0%	No	S
QD	T	6	6	0.24	0	42.3%	No	S
MW-2BR	T	8	0	0.38	-11	88.7%	Yes	S
MW-2I	T	7	0	0.38	-6	76.4%	Yes	S
MW-1BRD	T	8	0	0.38	-11	88.7%	Yes	S
MW-2S	T	7	0	0.38	-6	76.4%	Yes	S
BF-5	T	6	6	0.12	-1	50.0%	No	S
UU	T	7	7	0.43	-16	99.0%	No	D
MW-3S	T	6	0	0.39	-8	89.8%	Yes	S
BF-4	T	6	1	1.62	-1	50.0%	No	NT
MW-7BR	T	5	5	0.35	-4	75.8%	No	S
FU	T	6	1	0.51	-5	76.5%	No	S
MW-3BR	T	7	1	0.48	-9	88.1%	No	S
GU	T	6	1	1.06	-5	76.5%	No	NT

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)- Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Dectcts shown above are post-consolidation values.

# MAROS Linear Regression Statistics Summary

**Project:** Chemical Insecticide Corporation

**User Name:** Lisa Tilton

**Location:** Edison Twp

**State:** New Jersey

**Time Period:** 6/26/2003 to 9/15/2008

**Consolidation Period:** No Time Consolidation

**Consolidation Type:** Median

**Duplicate Consolidation:** Average

**ND Values:** 1/2 Detection Limit

**J Flag Values:** Actual Value

Well	Source/ Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
<b>ALPHA BHC (ALPHA HEXACHLOROCYCLOH</b>									
NUS-3D	S	1.3E-05	7.2E-06	1.1E-05	No	-1.0E-03	0.90	72.4%	S
MW-4S	S	1.5E-05	2.4E-05	1.2E-05	Yes	-8.3E-04	0.79	67.7%	S
MW-5BR	S	1.0E-03	9.3E-04	3.9E-04	No	-1.8E-03	0.38	98.5%	D
MW-4BR	S	1.5E-05	2.4E-05	1.2E-05	Yes	-8.4E-04	0.79	67.9%	S
NUS-2D	S	1.6E-05	2.4E-05	1.2E-05	Yes	-7.6E-04	0.71	80.1%	S
MW-6BR	S	1.0E-04	9.6E-05	4.3E-05	No	-1.9E-03	0.42	91.1%	PD
NUS-3S	S	1.5E-05	2.5E-05	1.2E-05	Yes	-8.2E-04	0.79	67.4%	S
BF-2D	S	4.7E-03	3.4E-03	2.2E-03	No	-2.0E-04	0.47	64.1%	S
BF-2	S	1.0E-02	3.9E-03	1.6E-02	No	-1.4E-03	1.61	100.0%	D
MW-1BRD	T	1.7E-05	2.5E-05	1.1E-05	Yes	-2.5E-04	0.63	56.6%	S
MW-3BR	T	1.7E-05	2.5E-05	1.2E-05	Yes	-4.0E-03	0.72	89.3%	S
MW-2BR	T	1.5E-05	2.4E-05	1.2E-05	Yes	-8.3E-04	0.79	67.8%	S
FU	T	3.1E-05	3.2E-05	6.0E-06	No	2.0E-04	0.19	95.2%	I
MW-2I	T	1.5E-05	2.5E-05	1.2E-05	Yes	-8.1E-04	0.79	67.3%	S
MW-2S	T	1.5E-05	2.4E-05	1.2E-05	Yes	-8.3E-04	0.79	67.7%	S
GU	T	1.7E-05	2.4E-05	1.0E-05	Yes	-1.7E-03	0.59	63.4%	S
BF-4	T	1.2E-03	2.5E-05	1.9E-03	No	-1.3E-02	1.55	99.6%	D
BF-5	T	1.8E-05	2.4E-05	1.2E-05	Yes	-7.1E-04	0.64	75.6%	S
MW-1BRS	T	1.5E-05	2.5E-05	1.2E-05	Yes	-8.0E-04	0.79	67.2%	S
MW-3S	T	1.7E-05	2.5E-05	1.2E-05	Yes	-4.0E-03	0.72	89.3%	S
UU	T	1.7E-05	2.5E-05	1.2E-05	Yes	-4.0E-03	0.72	89.5%	S
MW-8BR	T	1.5E-05	2.5E-05	1.3E-05	Yes	-6.0E-03	0.84	85.2%	S
MW-7BR	T	1.6E-05	2.5E-05	1.2E-05	Yes	-5.8E-03	0.75	89.7%	S
QD	T	3.9E-05	3.8E-05	1.3E-05	No	3.1E-04	0.33	92.2%	PI
<b>ARSENIC</b>									
NUS-3S	S	1.5E-03	5.0E-04	1.7E-03	No	1.3E-03	1.13	85.1%	NT
MW-4S	S	2.2E-03	8.0E-04	2.0E-03	No	1.3E-03	0.91	84.0%	NT
BF-2	S	2.6E+00	8.3E-01	4.5E+00	No	-1.5E-03	1.75	100.0%	D
MW-5BR	S	2.4E-01	2.5E-01	2.0E-02	No	-2.7E-04	0.08	81.8%	S
NUS-2D	S	2.7E-03	2.2E-03	1.5E-03	No	3.9E-04	0.56	83.6%	NT
BF-2D	S	1.7E-02	1.4E-02	6.9E-03	No	-6.0E-04	0.42	88.8%	S
MW-4BR	S	2.6E-03	2.4E-03	1.7E-03	No	1.1E-03	0.65	88.4%	NT
MW-6BR	S	2.0E-03	9.5E-04	1.8E-03	Yes	3.1E-03	0.90	80.1%	NT
NUS-3D	S	1.8E-03	1.4E-03	1.6E-03	No	4.1E-04	0.84	63.7%	NT
MW-1BRD	T	1.7E-03	1.8E-03	1.2E-03	No	-1.1E-04	0.70	58.2%	S
QD	T	2.4E-03	1.7E-03	1.9E-03	No	5.4E-05	0.81	53.0%	NT
FU	T	1.7E-03	8.0E-04	1.6E-03	No	-4.8E-05	0.97	52.6%	S
UU	T	6.7E-03	4.4E-03	5.4E-03	No	-1.0E-04	0.81	56.2%	S

Project: Chemical Insecticide Corporation

User Name: Lisa Tilton

Location: Edison Twp

State: New Jersey

Well	Source/Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence In Trend	Concentration Trend
<b>ARSENIC</b>									
BF-5	T	1.7E-03	8.0E-04	1.6E-03	Yes	-3.5E-05	0.96	51.9%	S
GU	T	3.0E-03	3.8E-03	1.8E-03	No	2.0E-03	0.60	86.7%	NT
BF-4	T	1.7E-03	6.5E-04	1.8E-03	Yes	2.9E-03	1.05	90.6%	PI
MW-3BR	T	2.8E-03	3.5E-03	1.8E-03	No	-2.3E-04	0.83	64.3%	S
MW-3S	T	2.4E-03	1.7E-03	1.7E-03	No	1.1E-04	0.73	57.1%	NT
MW-2S	T	2.7E-03	2.1E-03	1.6E-03	No	2.4E-04	0.61	59.5%	NT
MW-7BR	T	2.2E-03	1.7E-03	1.7E-03	No	2.6E-03	0.80	76.5%	NT
MW-2I	T	2.1E-03	1.9E-03	1.4E-03	No	7.3E-04	0.87	75.7%	NT
MW-2BR	T	3.1E-03	3.0E-03	7.9E-04	No	3.9E-04	0.25	99.7%	I
MW-8BR	T	2.5E-03	2.7E-03	1.6E-03	No	3.0E-03	0.63	85.5%	NT
MW-1BRS	T	1.6E-03	6.5E-04	1.6E-03	Yes	1.1E-04	1.01	56.7%	NT
<b>DINOSEB</b>									
NUS-3D	S	2.3E-04	2.5E-04	4.5E-05	Yes	5.6E-04	0.19	97.3%	I
MW-6BR	S	3.0E-04	2.5E-04	1.1E-04	Yes	1.5E-03	0.35	85.1%	NT
MW-5BR	S	3.0E-04	2.5E-04	1.0E-04	Yes	1.5E-03	0.33	85.1%	NT
BF-2D	S	4.3E-04	3.7E-04	2.5E-04	No	1.4E-03	0.58	91.8%	PI
MW-4BR	S	2.3E-04	2.5E-04	5.1E-05	Yes	6.8E-04	0.23	97.3%	I
NUS-3S	S	2.3E-04	2.5E-04	5.1E-05	Yes	6.8E-04	0.23	97.3%	I
NUS-2D	S	2.3E-04	2.5E-04	4.5E-05	Yes	8.7E-05	0.19	67.6%	NT
MW-4S	S	2.8E-04	2.5E-04	1.3E-04	Yes	8.1E-04	0.48	86.7%	NT
BF-2	S	2.8E-04	2.5E-04	8.4E-05	Yes	1.3E-04	0.29	75.8%	NT
GU	T	3.5E-04	2.5E-04	1.5E-04	No	1.4E-03	0.42	92.3%	PI
MW-2S	T	2.7E-04	2.5E-04	1.1E-04	Yes	9.4E-04	0.42	98.3%	I
MW-2BR	T	2.3E-04	2.5E-04	5.1E-05	Yes	6.8E-04	0.23	97.3%	I
MW-3BR	T	2.9E-04	2.5E-04	9.3E-05	Yes	1.2E-04	0.32	72.0%	NT
MW-1BRS	T	2.5E-04	2.5E-04	4.5E-06	No	-4.3E-05	0.02	97.3%	D
MW-3S	T	2.9E-04	2.5E-04	9.5E-05	Yes	9.8E-05	0.32	68.3%	NT
BF-4	T	2.9E-04	2.5E-04	8.9E-05	Yes	7.2E-04	0.31	85.3%	NT
MW-7BR	T	3.1E-04	2.5E-04	1.2E-04	Yes	1.7E-03	0.38	85.1%	NT
MW-2I	T	2.3E-04	2.5E-04	5.1E-05	Yes	6.8E-04	0.23	97.3%	I
MW-8BR	T	3.1E-04	2.5E-04	1.2E-04	Yes	1.7E-03	0.39	85.1%	NT
FU	T	3.2E-03	3.6E-03	1.1E-03	No	-7.7E-05	0.34	57.8%	S
QD	T	8.4E-03	7.1E-03	5.9E-03	No	-7.1E-04	0.70	98.0%	D
BF-5	T	2.1E-01	1.4E-04	4.3E-01	No	2.9E-02	2.00	90.5%	PI
UU	T	2.9E-04	2.5E-04	9.4E-05	Yes	7.5E-04	0.32	85.3%	NT
MW-1BRD	T	2.5E-04	2.5E-04	0.0E+00	Yes	0.0E+00	0.00	100.0%	S
<b>TRICHLOROETHYLENE (TCE)</b>									
BF-2D	S	3.6E-03	3.1E-03	2.5E-03	No	-2.7E-04	0.69	61.5%	S
MW-4BR	S	3.6E-04	2.5E-04	1.3E-04	Yes	-8.3E-04	0.37	98.9%	D
BF-2	S	3.1E-03	2.8E-03	7.1E-04	No	-2.7E-04	0.23	98.4%	D
MW-4S	S	3.2E-04	2.5E-04	1.2E-04	Yes	-2.5E-04	0.38	72.4%	S
NUS-3S	S	3.2E-04	2.5E-04	1.2E-04	Yes	-2.5E-04	0.38	72.4%	S
MW-6BR	S	8.8E-04	8.7E-04	1.9E-04	No	6.5E-04	0.22	67.1%	NT
NUS-2D	S	3.7E-04	2.5E-04	1.6E-04	No	-1.4E-04	0.42	60.4%	S
MW-5BR	S	2.5E-04	2.5E-04	0.0E+00	Yes	0.0E+00	0.00	100.0%	S
NUS-3D	S	3.2E-04	2.5E-04	1.2E-04	Yes	-2.5E-04	0.38	72.4%	S
MW-3S	T	3.3E-04	2.5E-04	1.3E-04	Yes	-1.3E-03	0.39	98.8%	D
BF-4	T	1.0E-03	3.8E-04	1.7E-03	No	1.5E-03	1.62	72.4%	NT

Project: Chemical Insecticide Corporation

User Name: Lisa Tilton

Location: Edison Twp

State: New Jersey

Well	Source/Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
TRICHLOROETHYLENE (TCE)									
QD	T	2.1E-03	1.9E-03	4.8E-04	No	3.8E-04	0.24	79.6%	NT
BF-5	T	1.6E+00	1.6E+00	1.9E-01	No	-8.7E-05	0.12	62.3%	S
MW-8BR	T	4.5E-02	3.9E-02	2.2E-02	No	-1.7E-03	0.49	87.4%	S
UU	T	2.7E-03	2.4E-03	1.2E-03	No	-5.5E-04	0.43	98.9%	D
MW-2I	T	3.2E-04	2.5E-04	1.2E-04	Yes	-2.5E-04	0.38	72.4%	S
GU	T	6.1E-04	3.8E-04	6.4E-04	No	-6.6E-04	1.06	64.5%	NT
MW-1BRD	T	3.4E-04	2.5E-04	1.3E-04	Yes	-3.0E-04	0.38	91.7%	PD
MW-3BR	T	3.4E-04	2.5E-04	1.6E-04	No	-4.7E-04	0.48	89.6%	S
MW-1BRS	T	3.3E-04	2.5E-04	1.5E-04	No	-2.5E-04	0.45	80.4%	S
MW-2S	T	3.2E-04	2.5E-04	1.2E-04	Yes	-2.5E-04	0.38	72.4%	S
MW-2BR	T	3.4E-04	2.5E-04	1.3E-04	Yes	-3.0E-04	0.38	91.7%	PD
FU	T	3.1E-04	2.5E-04	1.6E-04	No	-1.3E-03	0.51	86.9%	S
MW-7BR	T	4.2E-03	4.5E-03	1.5E-03	No	-1.5E-03	0.35	87.1%	S

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); COV = Coefficient of Variation

# MAROS Spatial Moment Analysis Summary

**Project:**

**Location:**

**User Name:**

**State:**

<b>Effective Date</b>	<b>Estimated Mass (Kg)</b>	<b>0th Moment</b>		<b>1st Moment (Center of Mass)</b>		<b>2nd Moment (Spread)</b>		<b>Number of Wells</b>
		<b>Xc (ft)</b>	<b>Yc (ft)</b>	<b>Source Distance (ft)</b>	<b>Sigma XX (sq ft)</b>	<b>Sigma YY (sq ft)</b>		
<b>ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)</b>								
6/26/2003	0.0E+00							5
10/18/2005	3.6E-02	528,920	617,295	246	62,809	39,068	11	
12/18/2006	3.8E-01	529,286	617,173	437	129,996	47,992	19	
7/25/2007	2.6E-01	529,195	617,253	385	100,486	45,411	24	
12/18/2007	1.5E-01	529,182	617,222	358	207,317	90,712	24	
3/24/2008	4.6E-02	529,184	617,247	373	111,939	49,361	24	
6/16/2008	1.1E-01	529,229	617,201	391	238,174	102,272	24	
9/15/2008	3.7E-02	529,106	617,223	294	82,533	46,983	24	
<b>ARSENIC</b>								
6/26/2003	2.4E+01	529,344	617,163	490	88,684	65,287	11	
10/18/2005	3.2E+00	528,954	617,283	245	66,640	38,019	11	
12/18/2006	6.7E+00	529,351	617,053	485	198,747	79,165	20	
7/25/2007	5.3E+00	529,422	617,085	557	333,388	132,344	24	
12/18/2007	5.6E+00	529,312	617,220	476	207,830	101,741	24	
3/24/2008	1.3E+01	529,396	617,132	536	247,019	114,556	24	
6/16/2008	3.9E+00	529,350	617,208	508	198,844	106,483	24	
9/15/2008	1.3E+01	529,427	617,101	563	268,125	119,623	24	
<b>DINOSEB</b>								
6/26/2003	8.9E-01	529,655	616,789	832	126,211	23,030	6	
10/18/2005	1.4E-01	528,928	617,304	258	62,597	15,397	9	
12/18/2006	1.0E+00	529,502	616,877	660	205,180	77,860	19	
7/25/2007	6.3E-01	529,355	616,968	496	203,935	92,963	24	
12/18/2007	5.8E-01	529,344	616,982	483	218,766	99,194	24	
3/24/2008	7.4E-01	529,441	616,979	580	272,480	98,966	24	
6/16/2008	4.5E+00	530,099	616,800	1,258	95,095	53,152	15	
9/15/2008	0.0E+00						2	
<b>TRICHLOROETHYLENE (TCE)</b>								
6/26/2003	1.5E+00	529,853	617,010	988	117,140	49,804	6	
10/18/2005	4.4E-01	528,897	617,293	241	62,898	37,283	11	
12/18/2006	8.8E+00	529,999	616,797	1,162	237,176	76,905	20	
7/25/2007	1.9E+01	529,954	616,707	1,142	129,906	43,648	23	
12/18/2007	1.3E+01	529,963	616,690	1,156	104,930	39,315	24	
3/24/2008	1.2E+01	529,999	616,698	1,187	107,362	42,310	24	
6/16/2008	1.3E+01	529,976	616,697	1,165	100,354	38,374	24	
9/15/2008	1.4E+01	529,968	616,728	1,149	104,105	51,188	24	

Project:  
Location:

User Name:  
State:

Moment Type	Constituent	Coefficient of Variation	Mann-Kendall S Statistic	Confidence in Trend	Moment Trend
<b>Zeroth Moment: Mass</b>					
	ALPHA BHC (ALPHA HEXACHLOR)	1.03	0	45.2%	NT
	ARSENIC	0.75	0	45.2%	S
	DINOSEB	1.35	-2	54.8%	NT
	TRICHLOROETHYLENE (TCE)	0.63	14	94.6%	PI
<b>1st Moment: Distance to Source</b>					
	ALPHA BHC (ALPHA HEXACHLOR)	0.18	-1	50.0%	S
	ARSENIC	0.21	12	91.1%	PI
	DINOSEB	0.49	3	61.4%	NT
	TRICHLOROETHYLENE (TCE)	0.31	12	91.1%	PI
<b>2nd Moment: Sigma XX</b>					
	ALPHA BHC (ALPHA HEXACHLOR)	0.49	5	71.9%	NT
	ARSENIC	0.44	14	94.6%	PI
	DINOSEB	0.45	7	80.9%	NT
	TRICHLOROETHYLENE (TCE)	0.42	-8	80.1%	S
<b>2nd Moment: Sigma YY</b>					
	ALPHA BHC (ALPHA HEXACHLOR)	0.42	9	88.1%	NT
	ARSENIC	0.33	16	96.9%	I
	DINOSEB	0.54	9	88.1%	NT
	TRICHLOROETHYLENE (TCE)	0.27	-2	54.8%	S

Note: The following assumptions were applied for the calculation of the Zeroth Moment:

Porosity: 0.35      Saturated Thickness: Uniform: 100 ft

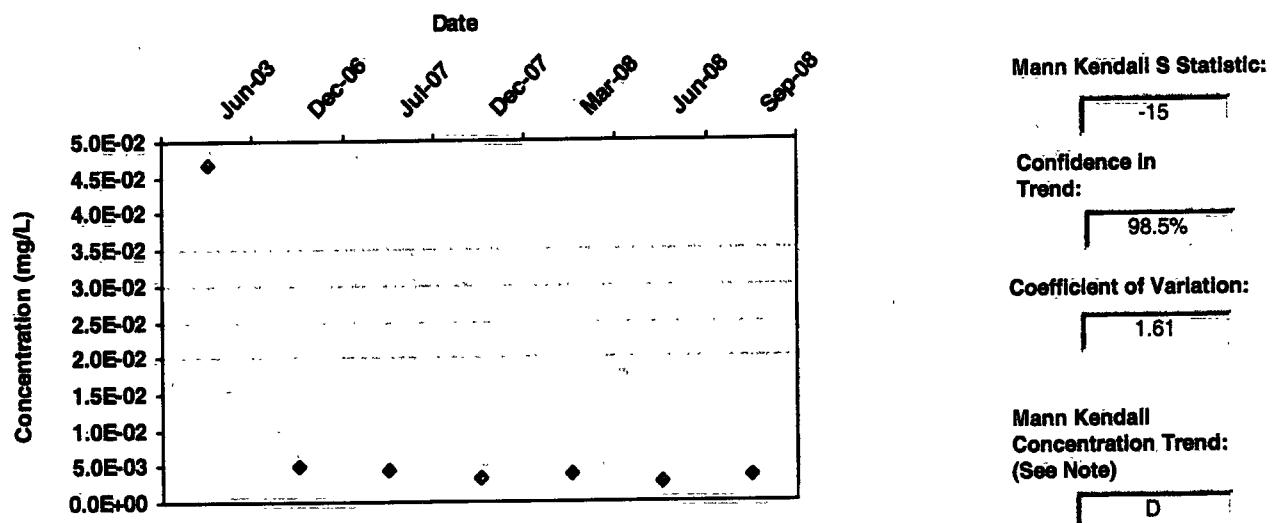
Mann-Kendall Trend test performed on all sample events for each constituent. Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events).

Note: The Sigma XX and Sigma YY components are estimated using the given field coordinate system and then rotated to align with the estimated groundwater flow direction. Moments are not calculated for sample events with less than 6 wells.

# MAROS Mann-Kendall Statistics Summary

**Well:** BF-2  
**Well Type:** S  
**COC:** ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)

**Time Period:** 6/26/2003 to 9/15/2008  
**Consolidation Period:** No Time Consolidation  
**Consolidation Type:** Median  
**Duplicate Consolidation:** Average  
**ND Values:** 1/2 Detection Limit  
**J Flag Values :** Actual Value



## Data Table:

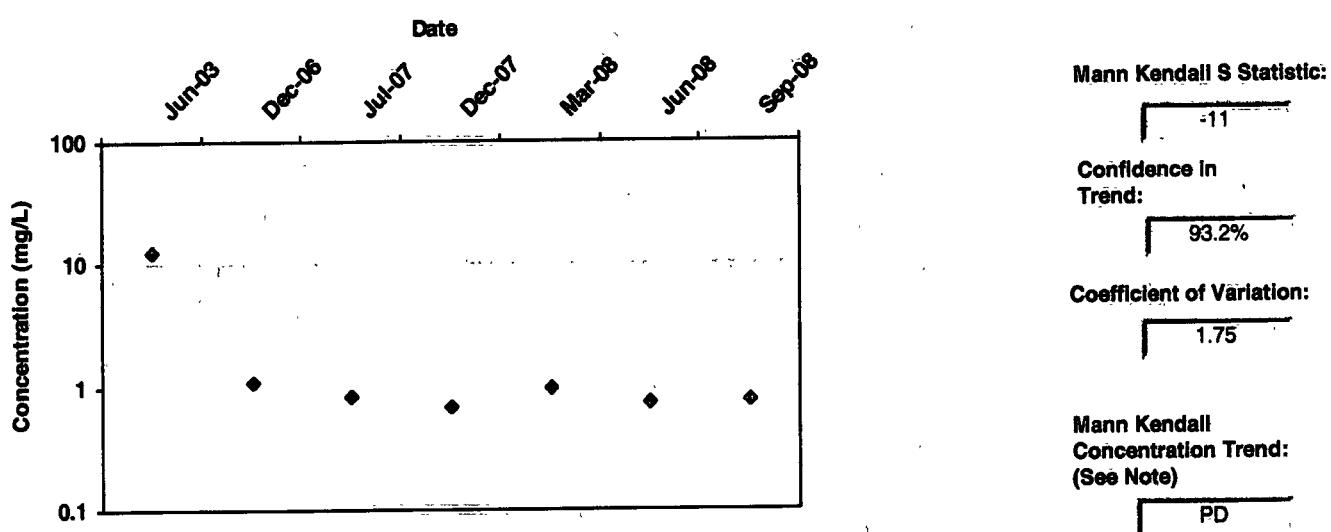
Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
BF-2	S	6/26/2003	ALPHA BHC (ALPHA HEXACHLO)	4.7E-02		1	1
BF-2	S	12/18/2006	ALPHA BHC (ALPHA HEXACHLO)	5.2E-03		1	1
BF-2	S	7/25/2007	ALPHA BHC (ALPHA HEXACHLO)	4.5E-03		1	1
BF-2	S	12/18/2007	ALPHA BHC (ALPHA HEXACHLO)	3.4E-03		1	1
BF-2	S	3/24/2008	ALPHA BHC (ALPHA HEXACHLO)	3.9E-03		1	1
BF-2	S	6/16/2008	ALPHA BHC (ALPHA HEXACHLO)	2.9E-03		1	1
BF-2	S	9/15/2008	ALPHA BHC (ALPHA HEXACHLO)	3.8E-03		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

# MAROS Mann-Kendall Statistics Summary

Well: BF-2  
 Well Type: S  
 COC: ARSENIC

Time Period: 6/26/2003 to 9/15/2008  
 Consolidation Period: No Time Consolidation  
 Consolidation Type: Median  
 Duplicate Consolidation: Average  
 ND Values: 1/2 Detection Limit  
 J Flag Values: Actual Value



Data Table:

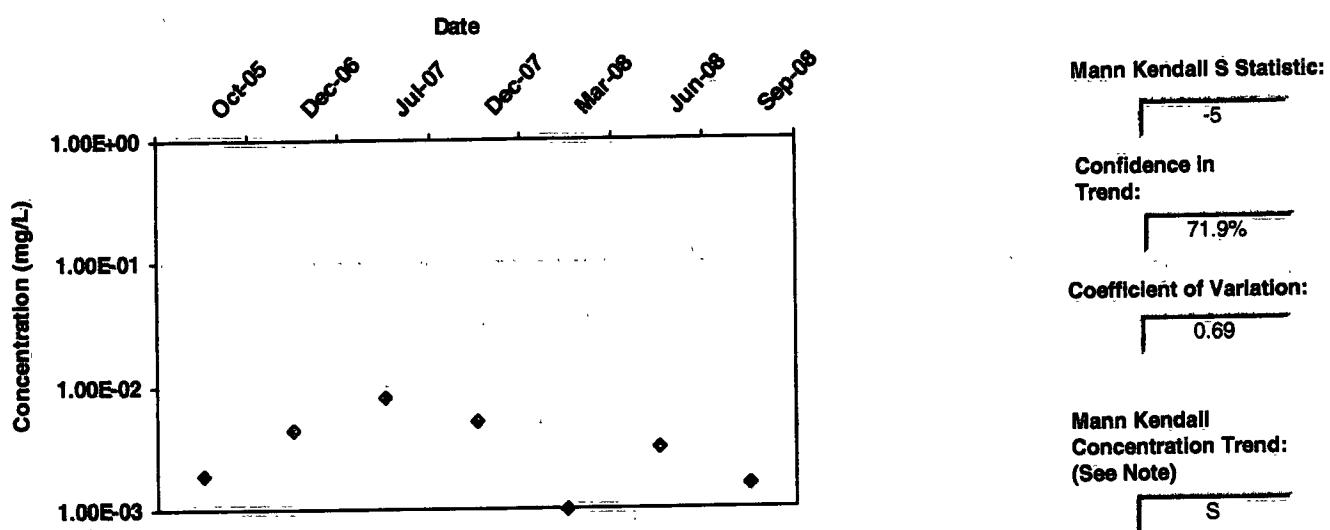
Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
BF-2	S	6/26/2003	ARSENIC	1.3E+01		1	1
BF-2	S	12/18/2006	ARSENIC	1.1E+00		1	1
BF-2	S	7/25/2007	ARSENIC	8.3E-01		1	1
BF-2	S	12/18/2007	ARSENIC	7.0E-01		1	1
BF-2	S	3/24/2008	ARSENIC	1.0E+00		1	1
BF-2	S	6/16/2008	ARSENIC	7.6E-01		1	1
BF-2	S	9/15/2008	ARSENIC	7.8E-01		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

# MAROS Mann-Kendall Statistics Summary

**Well:** BF-2D  
**Well Type:** S  
**COC:** TRICHLOROETHYLENE (TCE)

**Time Period:** 6/26/2003 to 9/15/2008  
**Consolidation Period:** No Time Consolidation  
**Consolidation Type:** Median  
**Duplicate Consolidation:** Average  
**ND Values:** 1/2 Detection Limit  
**J Flag Values :** Actual Value



**Data Table:**

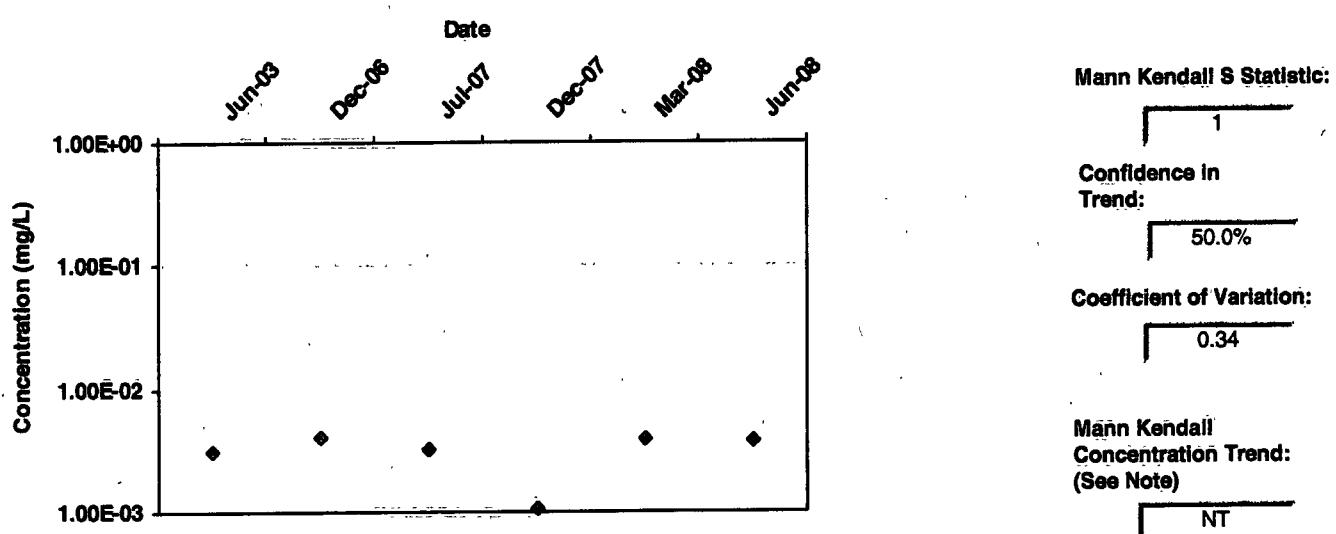
Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
BF-2D	S	10/18/2005	TRICHLOROETHYLENE (TCE)	1.9E-03		1	1
BF-2D	S	12/18/2006	TRICHLOROETHYLENE (TCE)	4.4E-03		1	1
BF-2D	S	7/25/2007	TRICHLOROETHYLENE (TCE)	8.1E-03		1	1
BF-2D	S	12/18/2007	TRICHLOROETHYLENE (TCE)	5.1E-03		1	1
BF-2D	S	3/24/2008	TRICHLOROETHYLENE (TCE)	1.0E-03		1	1
BF-2D	S	6/16/2008	TRICHLOROETHYLENE (TCE)	3.1E-03		1	1
BF-2D	S	9/15/2008	TRICHLOROETHYLENE (TCE)	1.6E-03		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

# MAROS Mann-Kendall Statistics Summary

Well: FU  
 Well Type: T  
 COC: DINOSEB

Time Period: 6/26/2003 to 9/15/2008  
 Consolidation Period: No Time Consolidation  
 Consolidation Type: Median  
 Duplicate Consolidation: Average  
 ND Values: 1/2 Detection Limit  
 J Flag Values : Actual Value



## Data Table:

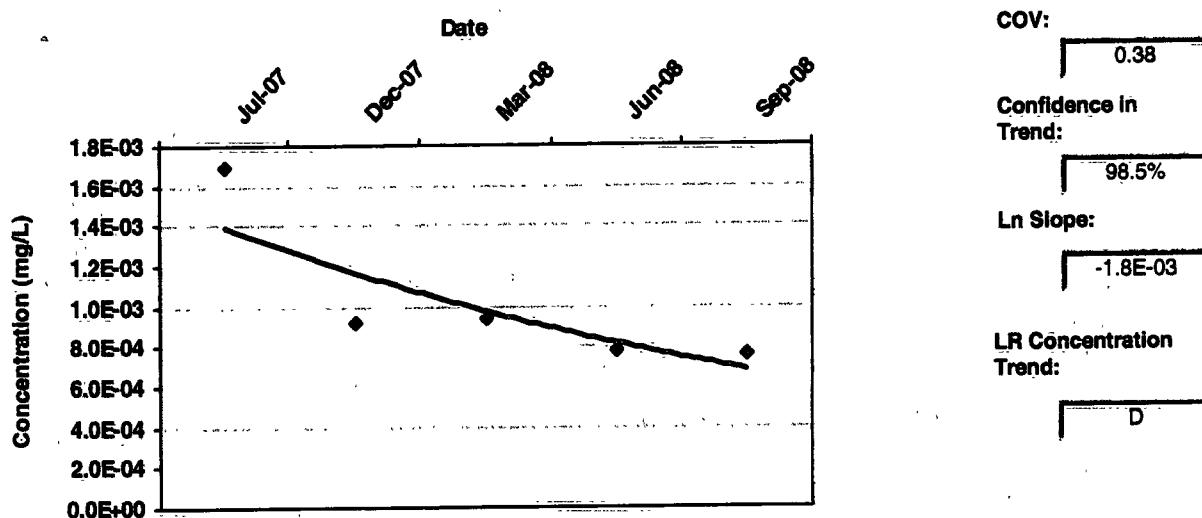
Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
FU	T	6/26/2003	DINOSEB	3.2E-03		1	1
FU	T	12/18/2006	DINOSEB	4.1E-03		1	1
FU	T	7/25/2007	DINOSEB	3.3E-03		1	1
FU	T	12/18/2007	DINOSEB	1.1E-03		1	1
FU	T	3/24/2008	DINOSEB	3.9E-03		1	1
FU	T	6/16/2008	DINOSEB	3.8E-03		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

# MAROS Linear Regression Statistics

**Well:** MW-5BR  
**Well Type:** S  
**COC:** ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)

**Time Period:** 6/26/2003 to 9/15/2008  
**Consolidation Period:** No Time Consolidation  
**Consolidation Type:** Median  
**Duplicate Consolidation:** Average  
**ND Values:** 1/2 Detection Limit  
**J Flag Values:** Actual Value



## Consolidation Data Table:

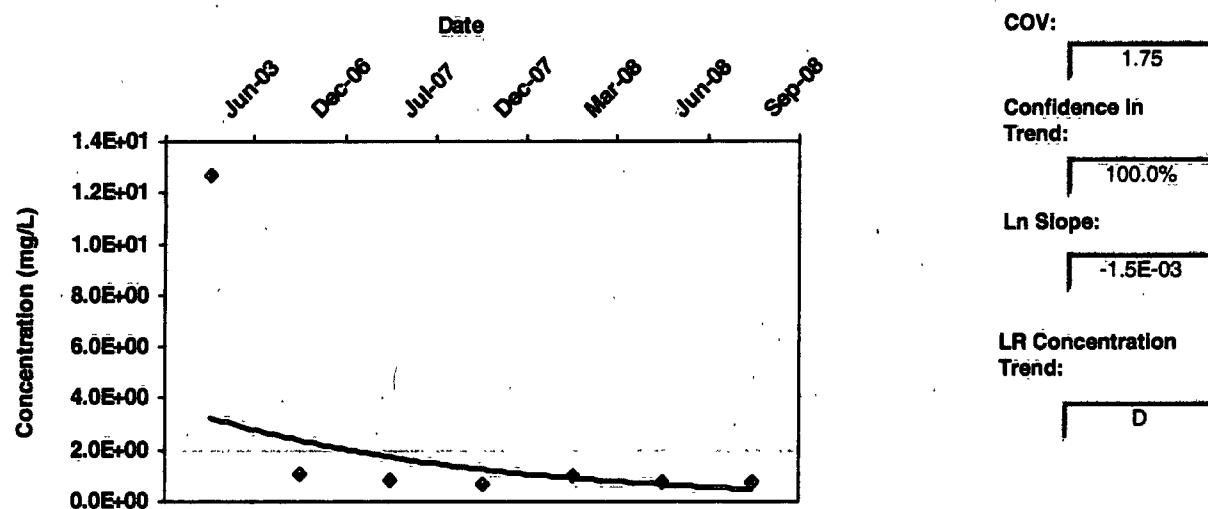
Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-5BR	S	7/25/2007	ALPHA BHC (ALPHA HEXACHLO	1.7E-03		1	1
MW-5BR	S	12/18/2007	ALPHA BHC (ALPHA HEXACHLO	9.3E-04		1	1
MW-5BR	S	3/24/2008	ALPHA BHC (ALPHA HEXACHLO	9.5E-04		1	1
MW-5BR	S	6/16/2008	ALPHA BHC (ALPHA HEXACHLO	7.8E-04		1	1
MW-5BR	S	9/15/2008	ALPHA BHC (ALPHA HEXACHLO	7.6E-04		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

# MAROS Linear Regression Statistics

**Well:** BF-2  
**Well Type:** S  
**COC:** ARSENIC

**Time Period:** 6/26/2003 to 9/15/2008  
**Consolidation Period:** No Time Consolidation  
**Consolidation Type:** Median  
**Duplicate Consolidation:** Average  
**ND Values:** 1/2 Detection Limit  
**J Flag Values:** Actual Value



## Consolidation Data Table:

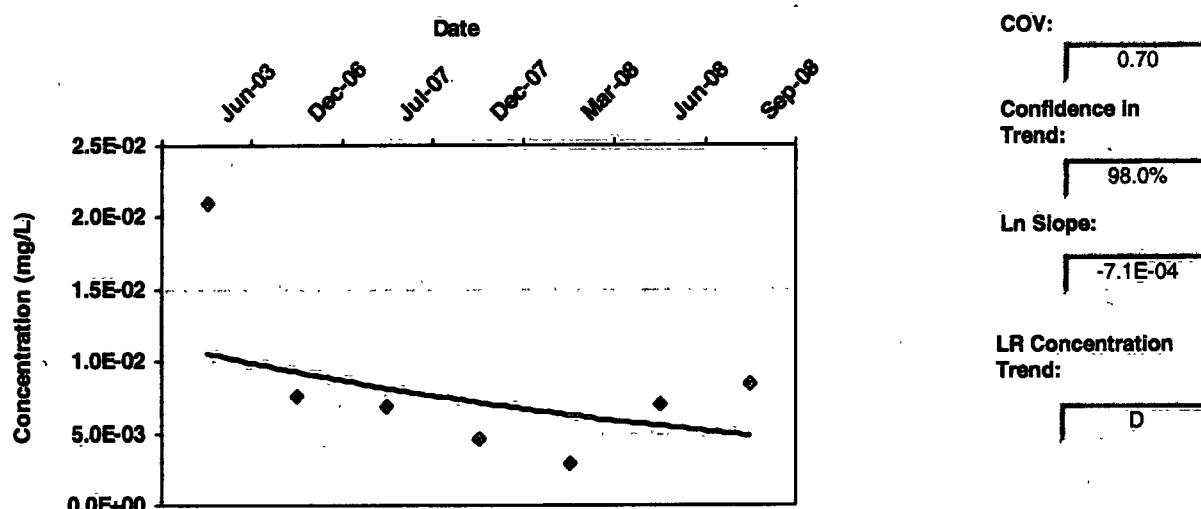
Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
BF-2	S	6/26/2003	ARSENIC	1.3E+01		1	1
BF-2	S	12/18/2006	ARSENIC	1.1E+00		1	1
BF-2	S	7/25/2007	ARSENIC	8.3E-01		1	1
BF-2	S	12/18/2007	ARSENIC	7.0E-01		1	1
BF-2	S	3/24/2008	ARSENIC	1.0E+00		1	1
BF-2	S	6/16/2008	ARSENIC	7.6E-01		1	1
BF-2	S	9/15/2008	ARSENIC	7.8E-01		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

# MAROS Linear Regression Statistics

Well: QD  
 Well Type: T  
 COC: DINOSEB

Time Period: 6/26/2003 to 9/15/2008  
 Consolidation Period: No Time Consolidation  
 Consolidation Type: Median  
 Duplicate Consolidation: Average  
 ND Values: 1/2 Detection Limit  
 J Flag Values: Actual Value



## Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
QD	T	6/26/2003	DINOSEB	2.1E-02		1	1
QD	T	12/18/2006	DINOSEB	7.6E-03		1	1
QD	T	7/25/2007	DINOSEB	6.9E-03		1	1
QD	T	12/18/2007	DINOSEB	4.7E-03		1	1
QD	T	3/24/2008	DINOSEB	3.0E-03		1	1
QD	T	6/16/2008	DINOSEB	7.1E-03		1	1
QD	T	9/15/2008	DINOSEB	8.5E-03		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

# MAROS Linear Regression Statistics

Well: BF-5

Well Type: T

COC: TRICHLOROETHYLENE (TCE)

Time Period: 6/26/2003 to 9/15/2008

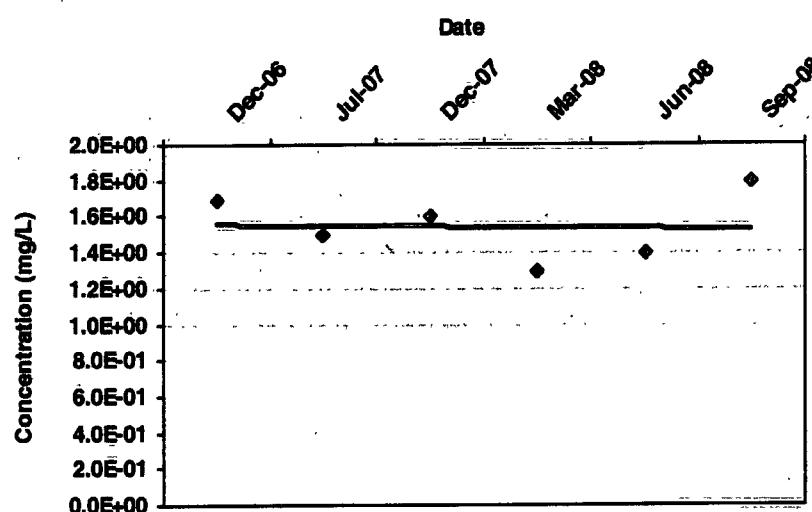
Consolidation Period: No Time Consolidation

Consolidation Type: Median

Duplicate Consolidation: Average

ND Values: 1/2 Detection Limit

J Flag Values: Actual Value



COV:

0.12

Confidence in Trend:

62.3%

Ln Slope:

-8.7E-05

LR Concentration Trend:

S

## Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
BF-5	T	12/18/2006	TRICHLOROETHYLENE (TCE)	1.7E+00		1	1
BF-5	T	7/25/2007	TRICHLOROETHYLENE (TCE)	1.5E+00		1	1
BF-5	T	12/18/2007	TRICHLOROETHYLENE (TCE)	1.6E+00		1	1
BF-5	T	3/24/2008	TRICHLOROETHYLENE (TCE)	1.3E+00		1	1
BF-5	T	6/16/2008	TRICHLOROETHYLENE (TCE)	1.4E+00		1	1
BF-5	T	9/15/2008	TRICHLOROETHYLENE (TCE)	1.8E+00		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

# MAROS Linear Regression Statistics

Well: BF-5

Well Type: T

COC: TRICHLOROETHYLENE (TCE)

Time Period: 6/26/2003 to 9/15/2008

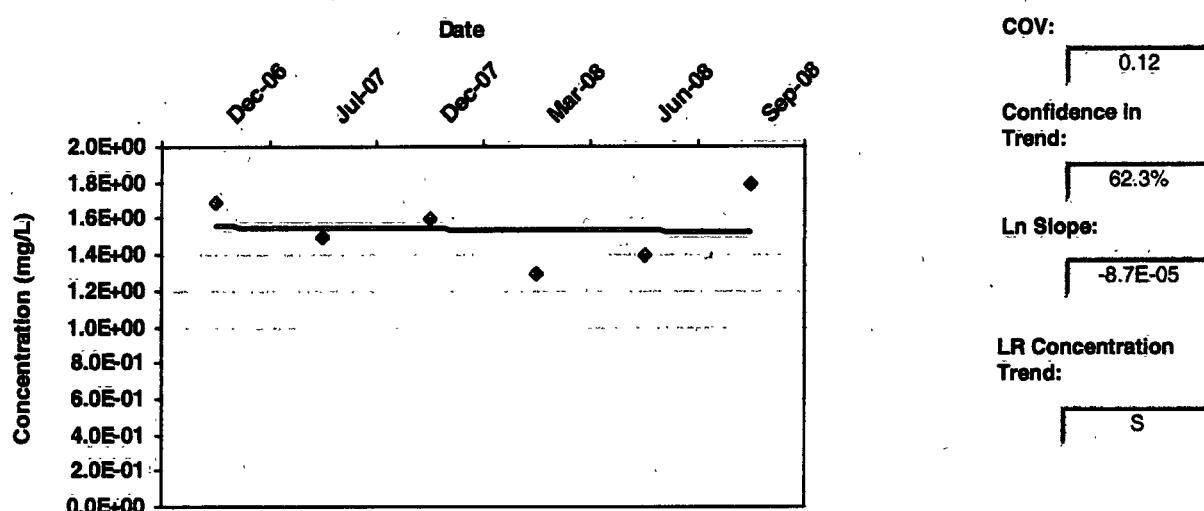
Consolidation Period: No Time Consolidation

Consolidation Type: Median

Duplicate Consolidation: Average

ND Values: 1/2 Detection Limit

J Flag Values : Actual Value



## Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
BF-5	T	12/18/2006	TRICHLOROETHYLENE (TCE)	1.7E+00		1	1
BF-5	T	7/25/2007	TRICHLOROETHYLENE (TCE)	1.5E+00		1	1
BF-5	T	12/18/2007	TRICHLOROETHYLENE (TCE)	1.6E+00		1	1
BF-5	T	3/24/2008	TRICHLOROETHYLENE (TCE)	1.3E+00		1	1
BF-5	T	6/16/2008	TRICHLOROETHYLENE (TCE)	1.4E+00		1	1
BF-5	T	9/15/2008	TRICHLOROETHYLENE (TCE)	1.8E+00		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

**Attachment B –Well Redundancy  
Analysis**

# MAROS Sampling Location Optimization

## *Results by Considering All COCs*

**Project:** Chemical Insecticide Corporation

**User Name:** Lisa Tilton

**Location:** Edison Twp

**State:** New Jersey

**Sampling Events Analyzed:**

**From** 2003

**to** 5th Qtr LTM

6/26/2003

9/15/2008

Well	X (feet)	Y (feet)	Number of COCs	COC-Averaged Slope Factor*	Abandoned?
BF-2	529088.81	617318.00	4	0.275	<input type="checkbox"/>
BF-2D	529046.38	617366.38	4	0.297	<input type="checkbox"/>
BF-4	529619.13	617180.50	4	0.374	<input type="checkbox"/>
BF-5	530061.19	616806.00	4	0.502	<input type="checkbox"/>
FU	529626.81	616815.38	4	0.441	<input type="checkbox"/>
GU	529627.50	617084.69	4	0.336	<input type="checkbox"/>
MW-1BRD	528988.69	617758.63	4	0.162	<input type="checkbox"/>
MW-1BRS	528979.38	617750.88	4	0.194	<input type="checkbox"/>
MW-2BR	529713.19	617522.13	4	0.086	<input type="checkbox"/>
MW-2I	529700.38	617510.31	4	0.089	<input type="checkbox"/>
MW-2S	529705.00	617515.38	4	0.063	<input type="checkbox"/>
MW-3BR	531000.69	616365.38	4	0.354	<input type="checkbox"/>
MW-3S	531004.31	616342.88	4	0.058	<input type="checkbox"/>
MW-4BR	528348.19	617588.63	4	0.122	<input type="checkbox"/>
MW-4S	528341.81	617603.19	4	0.069	<input type="checkbox"/>
MW-5BR	529113.88	617340.00	4	0.247	<input type="checkbox"/>
MW-6BR	529064.19	617054.38	4	0.253	<input type="checkbox"/>
MW-7BR	529631.50	616812.88	4	0.429	<input type="checkbox"/>
MW-8BR	530010.88	616453.31	4	0.253	<input type="checkbox"/>
NUS-2D	528866.19	616745.81	4	0.352	<input type="checkbox"/>
NUS-3D	528591.50	616683.50	4	0.080	<input type="checkbox"/>
NUS-3S	528598.88	616681.00	4	0.216	<input type="checkbox"/>
QD	529370.63	616751.88	4	0.313	<input type="checkbox"/>
UU	530363.19	616309.50	4	0.276	<input type="checkbox"/>

Note: the COC-Averaged Slope Factor is the value calculated by averaging those "Average Slope Factor" obtained earlier across COCs; to be conservative, a location is "abandoned" only when it is eliminated from all COCs; "abandoned" doesn't necessarily mean the abandon of well, it can mean that NO samples need to be collected for any COCs.

\* When the report is generated after running the Excel module, SF values will NOT be shown above.

# MAROS Sampling Location Optimization

## *Results by Considering All COCs*

**Project:** Chemical Insecticide Corporation

**User Name:** Lisa Tilton

**Location:** Edison Twp

**State:** New Jersey

**Sampling Events Analyzed:** From 2003 to 5th.Qtr LTM  
6/26/2003 9/15/2008

Well	X (feet)	Y (feet)	Number of COCs	COC-Averaged Slope Factor*	Abandoned?
BF-2	529088.81	617318.00	4	0.275	<input type="checkbox"/>
BF-2D	529046.38	617366.38	4	0.297	<input type="checkbox"/>
BF-4	529619.13	617180.50	4	0.374	<input type="checkbox"/>
BF-5	530061.19	616806.00	4	0.502	<input type="checkbox"/>
FU	529626.81	616815.38	4	0.441	<input type="checkbox"/>
GU	529627.50	617084.69	4	0.336	<input type="checkbox"/>
MW-1BRD	528988.69	617758.63	4	0.162	<input type="checkbox"/>
MW-1BRS	528979.38	617750.88	4	0.194	<input type="checkbox"/>
MW-2BR	529713.19	617522.13	4	0.086	<input type="checkbox"/>
MW-2I	529700.38	617510.31	4	0.089	<input type="checkbox"/>
MW-2S	529705.00	617515.38	4	0.063	<input type="checkbox"/>
MW-3BR	531000.69	616365.38	4	0.354	<input type="checkbox"/>
MW-3S	531004.31	616342.88	4	0.058	<input type="checkbox"/>
MW-4BR	528348.19	617588.63	4	0.122	<input type="checkbox"/>
MW-4S	528341.81	617603.19	4	0.069	<input type="checkbox"/>
MW-5BR	529113.88	617340.00	4	0.247	<input type="checkbox"/>
MW-6BR	529064.19	617054.38	4	0.253	<input type="checkbox"/>
MW-7BR	529631.50	616812.88	4	0.429	<input type="checkbox"/>
MW-8BR	530010.88	616453.31	4	0.253	<input type="checkbox"/>
NUS-2D	528866.19	616745.81	4	0.352	<input type="checkbox"/>
NUS-3D	528591.50	616683.50	4	0.080	<input type="checkbox"/>
NUS-3S	528598.88	616681.00	4	0.216	<input type="checkbox"/>
QD	529370.63	616751.88	4	0.313	<input type="checkbox"/>
UU	530363.19	616309.50	4	0.276	<input type="checkbox"/>

Note: the COC-Averaged Slope Factor is the value calculated by averaging those "Average Slope Factor" obtained earlier across COCs; to be conservative, a location is "abandoned" only when it is eliminated from all COCs; "abandoned" doesn't necessarily mean the abandon of well, it can mean that NO samples need to be collected for any COCs.

\* When the report is generated after running the Excel module, SF values will NOT be shown above.

# MAROS Sampling Location Optimization Results

**Project:** Chemical Insecticide Corporation

**User Name:** Lisa Tilton

**Location:** Edison Twp

**State:** New Jersey

**Sampling Events Analyzed:** From 2003 to 5th Qtr LTM  
6/26/2003 9/15/2008

**Parameters used:**

Constituent	Inside SF	Hull SF	Area Ratio	Conc. Ratio
ALPHA BHC (ALPHA HEXACHLO)	0.1	0.01	0.95	0.95
ARSEÑIC	0.1	0.01	0.95	0.95
DINÓSEB	0.1	0.01	0.95	0.95
TRICHLOROETHYLENE (TCE)	0.1	0.01	0.95	0.95

<b>ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)</b>							
Well	X (feet)	Y (feet)	Removable?	Average Slope Factor*	Minimum Slope Factor*	Maximum Slope Factor*	Eliminated?
BF-2	529088.81	617318.00	<input checked="" type="checkbox"/>	0.144	0.077	0.189	<input type="checkbox"/>
BF-2D	529046.38	617366.38	<input checked="" type="checkbox"/>	0.300	0.204	0.802	<input type="checkbox"/>
BF-4	529619.13	617180.50	<input checked="" type="checkbox"/>	0.516	0.121	0.884	<input type="checkbox"/>
BF-5	530061.19	616806.00	<input checked="" type="checkbox"/>	0.464	0.001	0.953	<input type="checkbox"/>
FU	529626.81	616815.38	<input checked="" type="checkbox"/>	0.392	0.005	0.918	<input type="checkbox"/>
GU	529627.50	617084.69	<input checked="" type="checkbox"/>	0.400	0.075	0.929	<input type="checkbox"/>
MW-1BRD	528988.69	617758.63	<input checked="" type="checkbox"/>	0.307	0.071	0.745	<input type="checkbox"/>
MW-1BRS	528979.38	617750.88	<input checked="" type="checkbox"/>	0.296	0.048	0.898	<input type="checkbox"/>
MW-2BR	529713.19	617522.13	<input checked="" type="checkbox"/>	0.052	0.000	0.180	<input type="checkbox"/>
MW-2I	529700.38	617510.31	<input checked="" type="checkbox"/>	0.120	0.009	0.348	<input type="checkbox"/>
MW-2S	529705.00	617515.38	<input checked="" type="checkbox"/>	0.021	0.000	0.110	<input checked="" type="checkbox"/>
MW-3BR	531000.69	616365.38	<input checked="" type="checkbox"/>	0.242	0.006	0.843	<input type="checkbox"/>
MW-3S	531004.31	616342.88	<input checked="" type="checkbox"/>	0.001	0.000	0.006	<input checked="" type="checkbox"/>
MW-4BR	528348.19	617588.63	<input checked="" type="checkbox"/>	0.218	0.036	0.595	<input type="checkbox"/>
MW-4S	528341.81	617603.19	<input checked="" type="checkbox"/>	0.060	0.000	0.184	<input type="checkbox"/>
MW-5BR	529113.88	617340.00	<input checked="" type="checkbox"/>	0.078	0.051	0.116	<input checked="" type="checkbox"/>
MW-6BR	529064.19	617054.38	<input checked="" type="checkbox"/>	0.156	0.035	0.427	<input type="checkbox"/>
MW-7BR	529631.50	616812.88	<input checked="" type="checkbox"/>	0.362	0.006	0.949	<input type="checkbox"/>
MW-8BR	530010.88	616453.31	<input checked="" type="checkbox"/>	0.375	0.003	0.872	<input type="checkbox"/>
NUS-2D	528866.19	616745.81	<input checked="" type="checkbox"/>	0.462	0.031	0.893	<input type="checkbox"/>
NUS-3D	528591.50	616683.50	<input checked="" type="checkbox"/>	0.156	0.007	0.391	<input type="checkbox"/>
NUS-3S	528598.88	616681.00	<input checked="" type="checkbox"/>	0.021	0.000	0.055	<input type="checkbox"/>
QD	529370.63	616751.88	<input checked="" type="checkbox"/>	0.296	0.046	0.639	<input type="checkbox"/>
UU	530363.19	616309.50	<input checked="" type="checkbox"/>	0.192	0.001	0.751	<input type="checkbox"/>

Project: Chemical Insecticide Corporation

User Name: Lisa Tilton

Location: Edison Twp

State: New Jersey

Well	X (feet)	Y (feet)	Removable?	Average Slope Factor*	Minimum Slope Factor*	Maximum Slope Factor*	Eliminated?
<b>ARSENIC</b>							
BF-2	529088.81	617318.00	<input checked="" type="checkbox"/>	0.398	0.254	0.944	<input type="checkbox"/>
BF-2D	529046.38	617366.38	<input checked="" type="checkbox"/>	0.353	0.201	0.540	<input type="checkbox"/>
BF-4	529619.13	617180.50	<input checked="" type="checkbox"/>	0.376	0.206	0.603	<input type="checkbox"/>
BF-5	530061.19	616806.00	<input checked="" type="checkbox"/>	0.270	0.000	0.517	<input type="checkbox"/>
FU	529626.81	616815.38	<input checked="" type="checkbox"/>	0.192	0.000	0.713	<input type="checkbox"/>
GU	529627.50	617084.69	<input checked="" type="checkbox"/>	0.212	0.000	0.555	<input type="checkbox"/>
MW-1BRD	528988.69	617758.63	<input checked="" type="checkbox"/>	0.247	0.039	0.520	<input type="checkbox"/>
MW-1BRS	528979.38	617750.88	<input checked="" type="checkbox"/>	0.263	0.021	0.921	<input type="checkbox"/>
MW-2BR	529713.19	617522.13	<input checked="" type="checkbox"/>	0.206	0.000	0.823	<input type="checkbox"/>
MW-2I	529700.38	617510.31	<input checked="" type="checkbox"/>	0.224	0.020	0.632	<input type="checkbox"/>
MW-2S	529705.00	617515.38	<input checked="" type="checkbox"/>	0.173	0.000	0.476	<input type="checkbox"/>
MW-3BR	531000.69	616365.38	<input checked="" type="checkbox"/>	0.207	0.000	0.420	<input type="checkbox"/>
MW-3S	531004.31	616342.88	<input checked="" type="checkbox"/>	0.072	0.000	0.576	<input type="checkbox"/>
MW-4BR	528348.19	617588.63	<input checked="" type="checkbox"/>	0.139	0.013	0.368	<input type="checkbox"/>
MW-4S	528341.81	617603.19	<input checked="" type="checkbox"/>	0.140	0.000	0.383	<input type="checkbox"/>
MW-5BR	529113.88	617340.00	<input checked="" type="checkbox"/>	0.139	0.126	0.172	<input type="checkbox"/>
MW-6BR	529064.19	617054.38	<input checked="" type="checkbox"/>	0.589	0.535	0.655	<input type="checkbox"/>
MW-7BR	529631.50	616812.88	<input checked="" type="checkbox"/>	0.141	0.000	0.473	<input type="checkbox"/>
MW-8BR	530010.88	616453.31	<input checked="" type="checkbox"/>	0.191	0.000	0.373	<input type="checkbox"/>
NUS-2D	528866.19	616745.81	<input checked="" type="checkbox"/>	0.307	0.000	0.870	<input type="checkbox"/>
NUS-3D	528591.50	616683.50	<input checked="" type="checkbox"/>	0.121	0.000	0.475	<input type="checkbox"/>
NUS-3S	528598.88	616681.00	<input checked="" type="checkbox"/>	0.313	0.000	0.631	<input type="checkbox"/>
QD	529370.63	616751.88	<input checked="" type="checkbox"/>	0.251	0.000	0.773	<input type="checkbox"/>
UU	530363.19	616309.50	<input checked="" type="checkbox"/>	0.325	0.000	0.548	<input type="checkbox"/>
<b>DINOSEB</b>							
BF-2	529088.81	617318.00	<input checked="" type="checkbox"/>	0.142	0.000	0.714	<input type="checkbox"/>
BF-2D	529046.38	617366.38	<input checked="" type="checkbox"/>	0.144	0.000	0.585	<input type="checkbox"/>
BF-4	529619.13	617180.50	<input checked="" type="checkbox"/>	0.140	0.000	0.321	<input type="checkbox"/>
BF-5	530061.19	616806.00	<input checked="" type="checkbox"/>	0.571	0.120	0.828	<input type="checkbox"/>
FU	529626.81	616815.38	<input checked="" type="checkbox"/>	0.449	0.010	0.732	<input type="checkbox"/>
GU	529627.50	617084.69	<input checked="" type="checkbox"/>	0.224	0.086	0.486	<input type="checkbox"/>
MW-1BRD	528988.69	617758.63	<input checked="" type="checkbox"/>	0.011	0.000	0.037	<input type="checkbox"/>
MW-1BRS	528979.38	617750.88	<input checked="" type="checkbox"/>	0.072	0.000	0.680	<input type="checkbox"/>
MW-2BR	529713.19	617522.13	<input checked="" type="checkbox"/>	0.005	0.000	0.029	<input checked="" type="checkbox"/>
MW-2I	529700.38	617510.31	<input checked="" type="checkbox"/>	0.001	0.000	0.014	<input checked="" type="checkbox"/>
MW-2S	529705.00	617515.38	<input checked="" type="checkbox"/>	0.059	0.000	0.443	<input type="checkbox"/>

Project: Chemical Insecticide Corporation

User Name: Lisa Tilton

Location: Edison Twp

State: New Jersey

Well	X (feet)	Y (feet)	Removable?	Average Slope Factor*	Minimum Slope Factor*	Maximum Slope Factor*	Eliminated?
MW-3BR	531000.69	616365.38	<input checked="" type="checkbox"/>	0.207	0.000	0.608	<input type="checkbox"/>
MW-3S	531004.31	616342.88	<input checked="" type="checkbox"/>	0.004	0.000	0.055	<input checked="" type="checkbox"/>
MW-4BR	528348.19	617588.63	<input checked="" type="checkbox"/>	0.052	0.000	0.166	<input checked="" type="checkbox"/>
MW-4S	528341.81	617603.19	<input checked="" type="checkbox"/>	0.043	0.000	0.177	<input type="checkbox"/>
MW-5BR	529113.88	617340.00	<input checked="" type="checkbox"/>	0.079	0.000	0.268	<input type="checkbox"/>
MW-6BR	529064.19	617054.38	<input checked="" type="checkbox"/>	0.194	0.095	0.363	<input type="checkbox"/>
MW-7BR	529631.50	616812.88	<input checked="" type="checkbox"/>	0.507	0.307	0.743	<input type="checkbox"/>
MW-8BR	530010.88	616453.31	<input checked="" type="checkbox"/>	0.219	0.053	0.638	<input type="checkbox"/>
NUS-2D	528866.19	616745.81	<input checked="" type="checkbox"/>	0.261	0.124	0.798	<input type="checkbox"/>
NUS-3D	528591.50	616683.50	<input checked="" type="checkbox"/>	0.023	0.000	0.257	<input type="checkbox"/>
NUS-3S	528598.88	616681.00	<input checked="" type="checkbox"/>	0.099	0.000	0.467	<input type="checkbox"/>
QD	529370.63	616751.88	<input checked="" type="checkbox"/>	0.479	0.412	0.600	<input type="checkbox"/>
UU	530363.19	616309.50	<input checked="" type="checkbox"/>	0.255	0.000	0.639	<input type="checkbox"/>

## TRICHLOROETHYLENE (TCE)

BF-2	529088.81	617318.00	<input checked="" type="checkbox"/>	0.417	0.125	0.551	<input type="checkbox"/>
BF-2D	529046.38	617366.38	<input checked="" type="checkbox"/>	0.389	0.176	0.695	<input type="checkbox"/>
BF-4	529619.13	617180.50	<input checked="" type="checkbox"/>	0.465	0.282	0.656	<input type="checkbox"/>
BF-5	530061.19	616806.00	<input checked="" type="checkbox"/>	0.703	0.646	0.800	<input type="checkbox"/>
FU	529626.81	616815.38	<input checked="" type="checkbox"/>	0.733	0.594	0.974	<input type="checkbox"/>
GU	529627.50	617084.69	<input checked="" type="checkbox"/>	0.507	0.239	0.746	<input type="checkbox"/>
MW-1BRD	528988.69	617758.63	<input checked="" type="checkbox"/>	0.084	0.033	0.388	<input type="checkbox"/>
MW-1BRS	528979.38	617750.88	<input checked="" type="checkbox"/>	0.145	0.038	0.569	<input type="checkbox"/>
MW-2BR	529713.19	617522.13	<input checked="" type="checkbox"/>	0.079	0.000	0.459	<input type="checkbox"/>
MW-2I	529700.38	617510.31	<input checked="" type="checkbox"/>	0.011	0.000	0.042	<input checked="" type="checkbox"/>
MW-2S	529705.00	617515.38	<input checked="" type="checkbox"/>	0.000	0.000	0.000	<input checked="" type="checkbox"/>
MW-3BR	531000.69	616365.38	<input checked="" type="checkbox"/>	0.761	0.000	0.980	<input type="checkbox"/>
MW-3S	531004.31	616342.88	<input checked="" type="checkbox"/>	0.155	0.000	0.896	<input type="checkbox"/>
MW-4BR	528348.19	617588.63	<input checked="" type="checkbox"/>	0.080	0.027	0.411	<input checked="" type="checkbox"/>
MW-4S	528341.81	617603.19	<input checked="" type="checkbox"/>	0.031	0.000	0.417	<input type="checkbox"/>
MW-5BR	529113.88	617340.00	<input checked="" type="checkbox"/>	0.694	0.650	0.740	<input type="checkbox"/>
MW-6BR	529064.19	617054.38	<input checked="" type="checkbox"/>	0.071	0.000	0.123	<input checked="" type="checkbox"/>
MW-7BR	529631.50	616812.88	<input checked="" type="checkbox"/>	0.704	0.564	0.913	<input type="checkbox"/>
MW-8BR	530010.88	616453.31	<input checked="" type="checkbox"/>	0.226	0.173	0.281	<input type="checkbox"/>
NUS-2D	528866.19	616745.81	<input checked="" type="checkbox"/>	0.376	0.033	0.531	<input type="checkbox"/>
NUS-3D	528591.50	616683.50	<input checked="" type="checkbox"/>	0.020	0.012	0.041	<input type="checkbox"/>
NUS-3S	528598.88	616681.00	<input checked="" type="checkbox"/>	0.431	0.000	0.640	<input type="checkbox"/>
QD	529370.63	616751.88	<input checked="" type="checkbox"/>	0.224	0.038	0.364	<input type="checkbox"/>
UU	530363.19	616309.50	<input checked="" type="checkbox"/>	0.332	0.068	0.582	<input type="checkbox"/>

**Project:** Chemical Insecticide Corporation  
**Location:** Edison Twp

**User Name:** Lisa Tilton  
**State:** New Jersey

Well	X (feet)	Y (feet)	Removable?	Average Slope Factor*	Minimum Slope Factor*	Maximum Slope Factor*	Eliminated?
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Note: The Slope Factor indicates the relative importance of a well in the monitoring network at a given sampling event; the larger the SF value of a well, the more important the well is and vice versa; the Average Slope Factor measures the overall well importance in the selected time period; the state coordinates system (i.e., X and Y refer to Easting and Northing respectively) or local coordinates systems may be used; wells that are NOT selected for analysis are not shown above.

\* When the report is generated after running the Excel module, SF values will NOT be shown above.

## **Attachment C – Potential New Locations**

NORTH

618000.0

617800.0

617600.0

617400.0

617200.0

617000.0

616800.0

616600.0

616400.0

616200.0

EAST

528500.0

529000.0

529500.0

530000.0

530500.0

531000.0

531500.0

New Location  
Analysis for

**ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)**

Existing  
Locations

Potential areas for  
new locations are  
indicated by triangles  
with a high SF level.

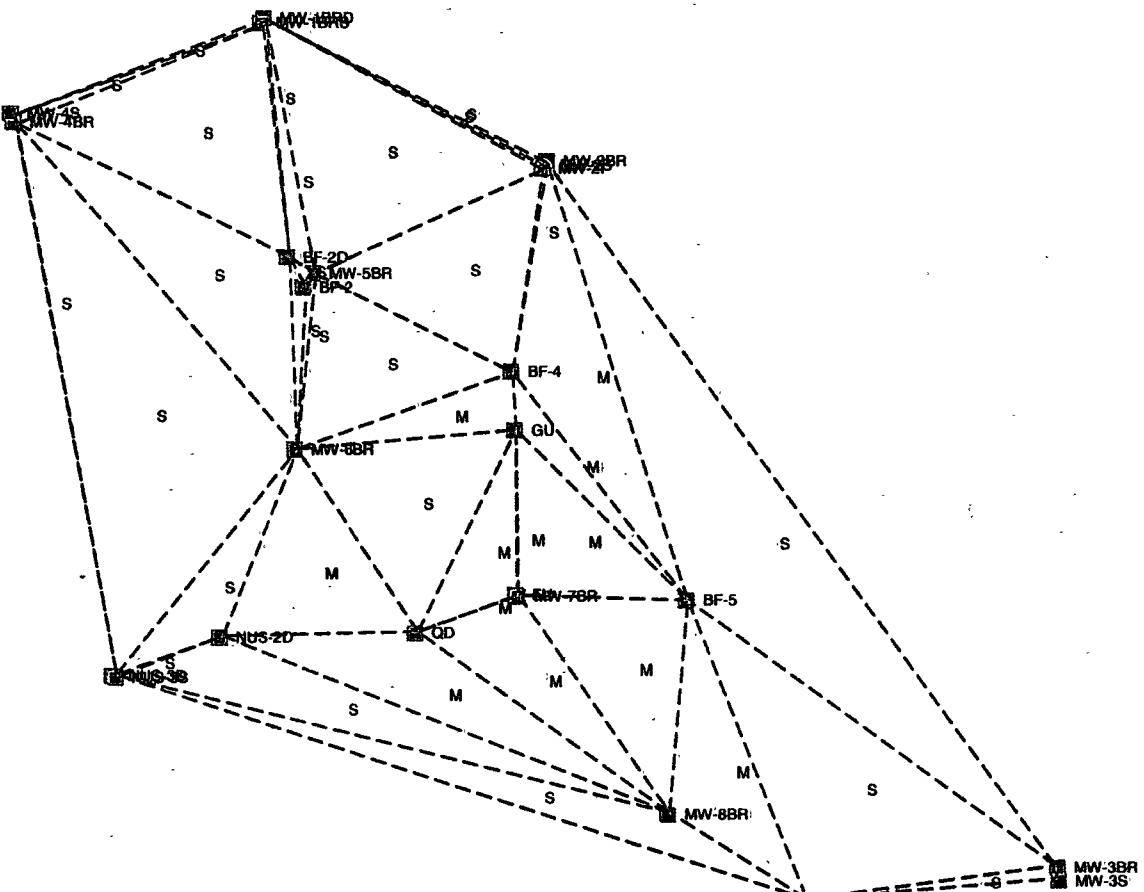
Estimated SF Level:

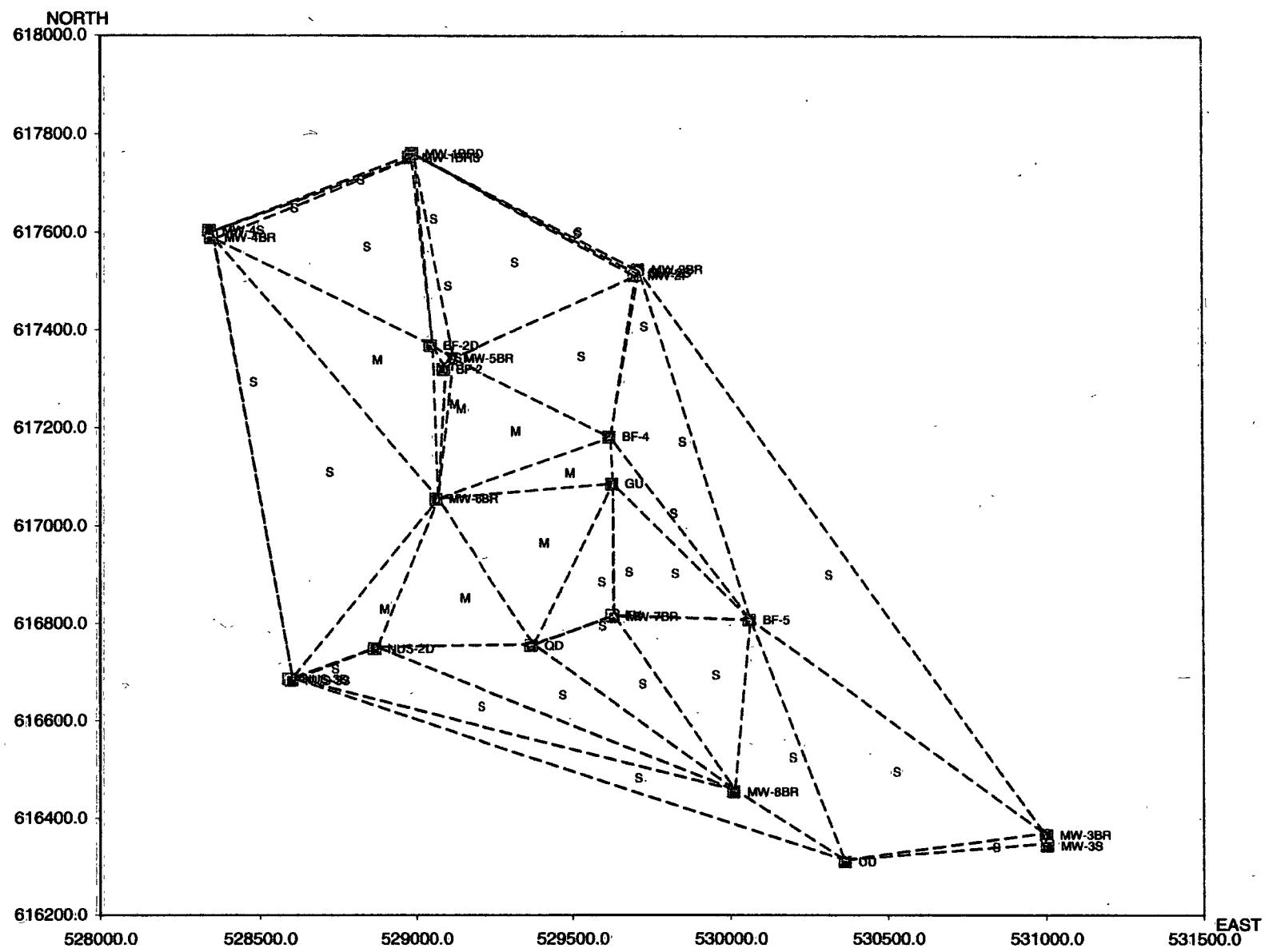
S - Small  
M - Moderate  
L - Large  
E - Extremely large

High SF -> high  
estimation error ->  
possible need for  
new locations

Low SF -> low  
estimation error ->  
no need for new  
locations

**Back to  
Access**





## New Location Analysis for

ARSENIC

## Existing Locations

Potential areas for new locations are indicated by triangles with a high SF level.

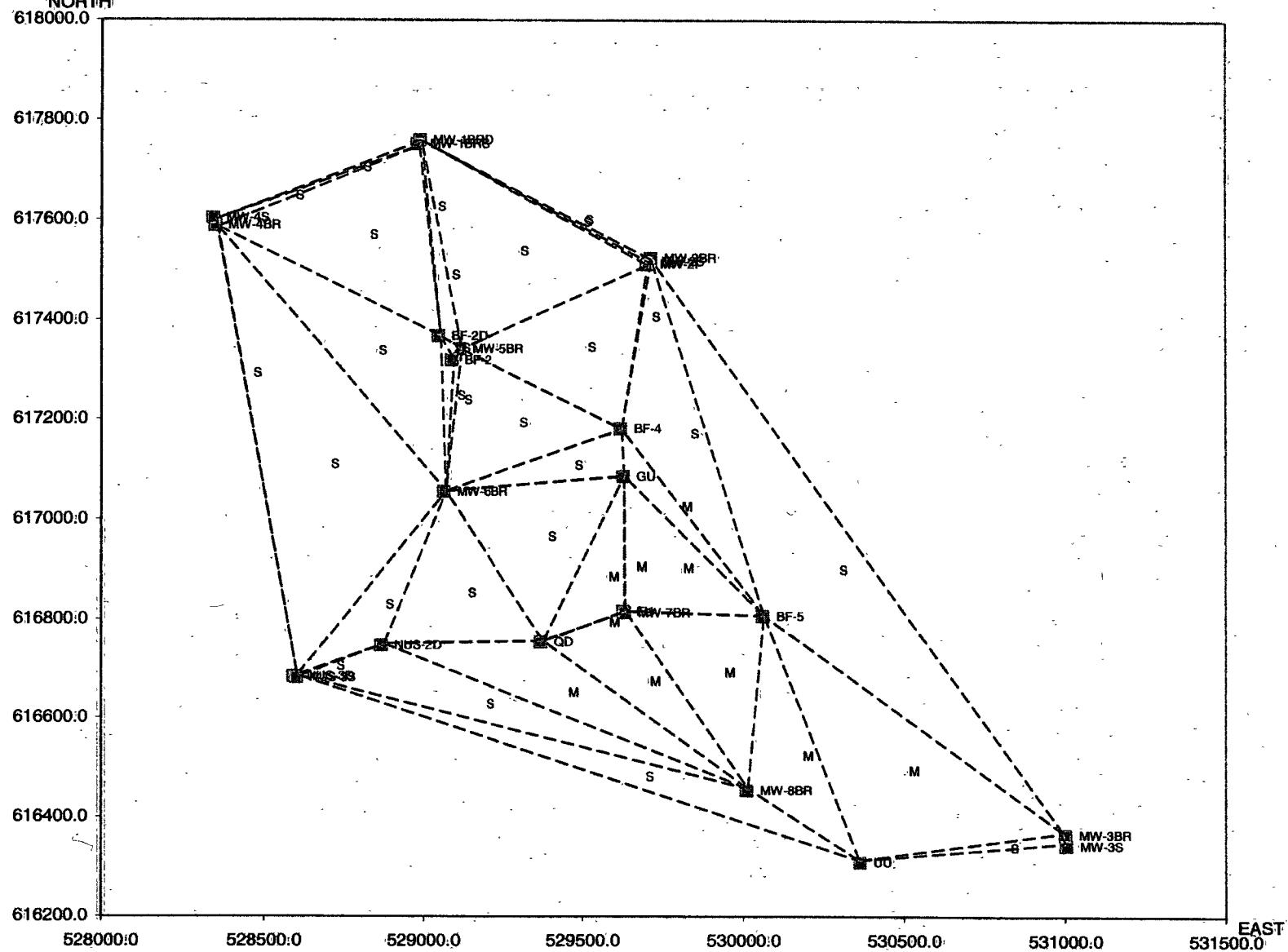
**Estimated SF Level:**  
S - Small  
M - Moderate  
L - Large  
E - Extremely large

High SF -> high estimation.error -> possible need for new locations

Low SF  $\rightarrow$  low estimation error  $\rightarrow$  no need for new locations

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NORTH



New Location  
Analysis for

DINOSEB

■ Existing  
Locations

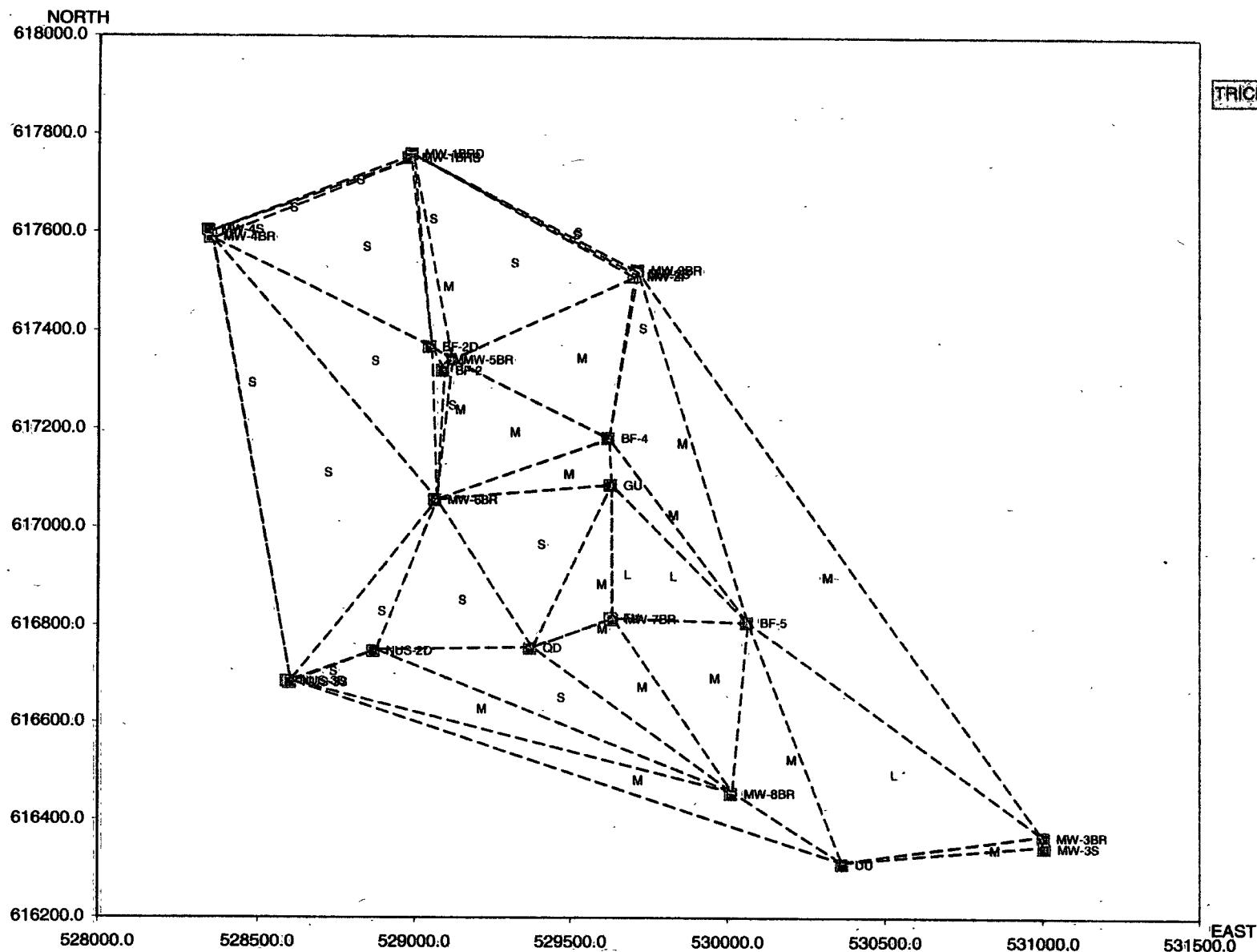
Potential areas for  
new locations are  
indicated by triangles  
with a high SF level:

Estimated SF Level:  
S - Small  
M - Moderate  
L - Large  
E - Extremely large

High SF -> high  
estimation error ->  
possible need for  
new locations

Low SF -> low  
estimation error ->  
no need for new  
locations

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New Location  
Analysis for

**TRICHLOROETHYLENE (TCE)**

**Attachment D – Recommendations for  
Sampling Frequencies**

# MAROS Sampling Frequency Optimization Results

**Project:** Chemical Insecticide Corporation

**User Name:** Lisa Tilton

**Location:** Edison Twp

**State:** New Jersey

**The Overall Number of Sampling Events:** 8

**"Recent Period" defined by events:** From BME To 5th Qtr LTM  
12/18/2006 9/15/2008

**"Rate of Change" parameters used:**

Constituent	Cleanup Goal	Low Rate	Medium Rate	High Rate
ALPHA BHC (ALPHA HEXACHLO)	0.00002	0.00001	0.00002	0.00004
ARSENIC	0.003	0.0015	0.003	0.006
DINOSEB	0.007	0.0035	0.007	0.014
TRICHLOROETHYLENE (TCE)	0.001	0.0005	0.001	0.002

Units: Cleanup Goal is in mg/L; all rate parameters are in mg/L/year.

Well	Recommended Sampling Frequency	Frequency Based on Recent Data	Frequency Based on Overall Data
<b>ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)</b>			
BF-2	Annual	Annual	Annual
BF-2D	Annual	Annual	Annual
BF-4	Annual	Annual	Annual
BF-5	Annual	Annual	Annual
FU	Annual	Annual	Annual
GU	Annual	Annual	Annual
MW-1BRD	Annual	Annual	Annual
MW-1BRS	Annual	Annual	Annual
MW-2BR	Annual	Annual	Annual
MW-2I	Annual	Annual	Annual
MW-2S	Annual	Annual	Annual
MW-3BR	Annual	Annual	Annual
MW-3S	Annual	Annual	Annual
MW-4BR	Annual	Annual	Annual
MW-4S	Annual	Annual	Annual
MW-5BR	Annual	Annual	Annual
MW-6BR	Annual	Annual	Annual
MW-7BR	Annual	Annual	Annual
MW-8BR	Annual	Annual	Annual
NUS-2D	Annual	Annual	Annual
NUS-3D	Annual	Annual	Annual

**Project:** Chemical Insecticide Corporation  
**Location:** Edison Twp

**User Name:** Lisa Tilton  
**State:** New Jersey

Well	Recommended Sampling Frequency	Frequency Based on Recent Data	Frequency Based on Overall Data
NUS-3S	Annual	Annual	Annual
QD	Annual	Annual	Annual
UU	Annual	Annual	Annual
<b>ARSENIC</b>			
BF-2	Annual	Annual	Annual
BF-2D	Annual	Annual	Annual
BF-4	Annual	Annual	Annual
BF-5	Annual	Annual	Annual
FU	Annual	Annual	Annual
GU	Annual	Annual	Annual
MW-1BRD	Annual	Annual	Annual
MW-1BRS	Annual	Annual	Annual
MW-2BR	Annual	Annual	Annual
MW-2I	SemiAnnual	SemiAnnual	Annual
MW-2S	Annual	Annual	Annual
MW-3BR	Annual	Annual	Annual
MW-3S	Annual	Annual	Annual
MW-4BR	Annual	Annual	Annual
MW-4S	Annual	Annual	Annual
MW-5BR	Annual	Annual	Annual
MW-6BR	SemiAnnual	SemiAnnual	SemiAnnual
MW-7BR	Annual	Annual	Annual
MW-8BR	Annual	Annual	Annual
NUS-2D	Annual	Annual	Annual
NUS-3D	Annual	Annual	Annual
NUS-3S	Annual	Annual	Annual
QD	Annual	Annual	Annual
UU	Annual	Annual	Annual
<b>DINOSEB</b>			
BF-2	Biennial	Annual	Annual
BF-2D	Biennial	Annual	Annual
BF-4	Biennial	Annual	Annual
BF-5	Quarterly	Quarterly	Quarterly
FU	Annual	Annual	Annual
GU	Biennial	Annual	Annual
MW-1BRD	Biennial	Annual	Annual

**Project:** Chemical Insecticide Corporation  
**Location:** Edison Twp

**User Name:** Lisa Tilton  
**State:** New Jersey

Well	Recommended Sampling Frequency	Frequency Based on Recent Data	Frequency Based on Overall Data
MW-1BRS	Biennial	Annual	Annual
MW-2BR	Biennial	Annual	Annual
MW-2I	Biennial	Annual	Annual
MW-2S	Biennial	Annual	Annual
MW-3BR	Biennial	Annual	Annual
MW-3S	Biennial	Annual	Annual
MW-4BR	Biennial	Annual	Annual
MW-4S	Biennial	Annual	Annual
MW-5BR	Biennial	Annual	Annual
MW-6BR	Biennial	Annual	Annual
MW-7BR	Biennial	Annual	Annual
MW-8BR	Biennial	Annual	Annual
NUS-2D	Biennial	Annual	Annual
NUS-3D	Biennial	Annual	Annual
NUS-3S	Biennial	Annual	Annual
QD	Annual	Annual	Annual
UU	Biennial	Annual	Annual

**TRICHLOROETHYLENE (TCE)**

BF-2	Annual	Annual	Annual
BF-2D	Annual	Annual	Annual
BF-4	SemiAnnual	SemiAnnual	SemiAnnual
BF-5	Annual	Annual	Annual
FU	Annual	Annual	Annual
GU	Annual	Annual	Annual
MW-1BRD	Annual	Annual	Annual
MW-1BRS	Annual	Annual	Annual
MW-2BR	Annual	Annual	Annual
MW-2I	Annual	Annual	Annual
MW-2S	Annual	Annual	Annual
MW-3BR	Annual	Annual	Annual
MW-3S	Annual	Annual	Annual
MW-4BR	Annual	Annual	Annual
MW-4S	Annual	Annual	Annual
MW-5BR	Biennial	Annual	Annual
MW-6BR	Annual	Annual	Annual
MW-7BR	Annual	Annual	Annual
MW-8BR	Annual	Annual	Annual

**Project:** Chemical Insecticide Corporation  
**Location:** Edison Twp

**User Name:** Lisa Tilton  
**State:** New Jersey

Well	Recommended Sampling Frequency	Frequency Based on Recent Data	Frequency Based on Overall Data
NUS-2D	Annual	Annual	Annual
NUS-3D	Annual	Annual	Annual
NUS-3S	Annual	Annual	Annual
QD	Annual	Annual	Annual
UU	Annual	Annual	Annual

Note: Sampling frequency is determined considering both recent and overall concentration trends. Sampling Frequency is the final recommendation; Frequency Based on Recent Data is the frequency determined using recent (short) period of monitoring data; Frequency Based on Overall Data is the frequency determined using overall (long) period of monitoring data. If the "recent period" is defined using a different series of sampling events, the results could be different.